DEPARTMENT OF TRADE AND INDUSTRY
DEPARTEMENT VAN HANDEL EN NYWERHEID

No. 248 **27 February 2004**

STANDARDS ACT, 1993
STANDARDS MATTERS

In terms of the Standards Act, 1993 (Act 29 of 1993), the Council of the South African Bureau of Standards has acted in regard to standards in the manner set out in the Schedules to this notice.

All South African standards that were previously published by the South African Bureau of Standards with the prefix "SABS" have been redesignated as South African National Standards and are now published by Standards South Africa (a division of SABS) with the prefix "SANS".

A list of all existing South African National standards was published by Government Notice No. 1373 of 8 November 2002.

In the list of SANS standards below, the equivalent SABS numbers, where applicable, are given below the new SANS numbers for the sake of convenience. Standards that were published with the "SABS" prefix are listed as such.

SCHEDULE 1: ISSUE OF NEW STANDARDS

The standards mentioned have been issued in terms of section 16(3) of the Act.

Standard No. and year	Title, scope and purport
SANS 18-3:2003/ ISO/IEC 10118-3:2003	*Information technology – Security techniques – Hash-functions – Part 3: Dedicated hash-functions.* Specifies dedicated hash-functions, i.e., specially designed hash-functions. The hash-functions are based on the iterative use of a round-function. Seven distinct round-functions are specified, giving rise to distinct dedicated hash-functions.
SANS 94-1:2003/ EN 1492-1:2000	*Textile slings – Safety – Part 1: Flat woven webbing slings, made of man-made fibres, for general purpose use.* Specifies the requirements related to safety, including methods of rating and testing single-, two-, three-, four-leg and endless sewn flat woven webbing slings, with or without fittings, made of polyamide, polyester and polypropylene man-made fibre webbing in the width range of 25 mm to 450 mm inclusive.
SANS 94-2:2003/ EN 1492-2:2000	*Textile slings – Safety – Part 2: Roundslings, made of man-made fibres, for general purpose use.* Specifies the requirements related to safety, including methods of rating and testing roundslings up to 40 tonnes working load limit (in straight lift) and two-, three-, and four-leg roundsling assemblies, with or without fittings, made of polyamide, polyester and polypropylene.
SANS 105-A08:2003/ ISO 105-A08:2001	*Textiles – Tests for colour fastness – Part A08: Vocabulary used in colour measurement.* Specifies the terms and definitions on colour measurements that are used throughout ISO 105. These definitions are intended to be used only within the context and scope of ISO 105.
SANS 205:2003/ ISO 6118:1980	*Road vehicles – Elastomeric cups and seals for hydraulic brake actuating cylinders using a non-petroleum base hydraulic brake fluid (service temperature 70 °C max.).* Specifies performance tests of hydraulic brake cups and seals for road vehicles (service temperature 70 °C max.).
SANS 206:2003/ ISO 6119:1980	*Road vehicles – Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (service temperature 120 °C max.).* Specifies the performance tests of hyudraulic disk brake cylinders and seals for road vehicles (service temperature 120 °C max.).
SANS 250:2003/ ISO 10012:2003	*Measurement management systems – Requirements for measurement processes and measuring equipment.* Specifies generic requirements and provides guidance for the management of measurement processes and metrological confirmation of measuring equipment used to support and demonstrate compliance with metrological requirements.
SANS 252:2003	*Metallic hose assemblies for liquid petroleum gases and liquefied natural gases.* Specifies hose and hose assemblies for the transfer of liquefied petroleum gas to and from road or rail transport tankers, and hose for liquefied petroleum gas lines. It also gives dimensional and physical requirements.
SANS 254:2003/ ISO 5010:1992	*Earth-moving machinery – Rubber-tyred machines – Steering requirements.* Specifies steering system tests and performance criteria for evaluating the steering capability of rubber-tyred self-propelled earth-moving machines having a machine speed greater than 20 km/h. Applies to tractors, loaders, back-hoe loaders, excavators, dumpers, tractor-scrapers and graders.
SANS 255:2003/ ISO 10265:1998	*Earth-moving machinery – Crawler machines – Performance requirements and test procedures for braking systems.* Specifies minimum performance criteria and test methods to enable uniform assessment of the service, secondary and parking brake systems of crawler machines.
SANS 259-1:2003/ ISO 5006-1:1991	*Earth-moving machinery – Operator's field of view – Part 1: Test method.* Specifies a stationary test method for determining the masking effect caused by parts of the base machine with equipment as specified by the manufacturer on a visibility test circle around the machine from the eye position point of a seated operator.
SANS 259-2:2003/ ISO 5006-2:1993	*Earth-moving machinery – Operator's field of view – Part 2: Evaluation method.* Specifies a method for evaluating the maskings which may be present on the perimeter designated in SANS 259-1. Does not consider evaluation of maskings which may be present with operational movement of working tools. Applies to earth-moving machinery which has a specific operator's station.

Standard No. and year	Title, scope and purport
SANS 259-3:2003/ ISO 5006-3:1993	*Earth-moving machinery – Operator's field of view – Part 3: Criteria.* Specifies visibility acceptance criteria for earth-moving machinery; applies to earth-moving machinery which has a specific operator's station.
SANS 261:2003/ ISO 6165:2001	*Earth-moving machinery – Basic types – Vocabulary.* Establishes a vocabulary and hierarchy of terms for earth-moving machinery designed to perform the following operations: excavation, loading, transportation, and the spreading and compacting of earth and other materials during work on roads, dams and on building sites.
SANS 264:2003/ EN 12864:2001	*Low-pressure, non-adjustable regulators having a maximum outlet pressure of less than or equal to 200 mbar, with a capacity of less than or equal to 4 kg/h, and their associated safety devices for butane, propane or their mixtures.* Defines the constructional and operational characteristics, the safety requirements and test methods and the marking of low-pressure, non-adjustable regulators for butane, propane or their mixtures. Covers regulators supplied at vapour pressure by one or several portable cylinders.
SANS 505:2003	*Specification for the elastic properties of flat, non-adhesive, extensible fabric bandages.* Specifies requirements for flat, non-adhesive, extensible bandages manufactured from woven or knitted fabrics and classifies them according to their function and performance.
SANS 731-2:2003	*Road and runway markings – Part 2: Single-pack water-borne paints.* Specifies requirements for conventional water-borne paints suitable for marking traffic-bearing bituminous or concrete road and runway surfaces, and makes provision for white, yellow and other colours.
SANS 1397:2003/ EN 397:1995	*Industrial safety helmets.* Specifies physical and performance requirements, methods of test and marking requirements for industrial safety helmets. The mandatory requirements apply to helmets for general use in industry.
SANS 1700-5-17:2003/ ISO 7085:1999	*Fasteners – Part 5: General requirements and mechanical properties – Section 17: Mechanical and performance requirements of case hardened and tempered metric thread rolling screws.* Specifies the requirements for case hardened and tempered metric thread rolling screws. Thread rolling screws according to this standard produce female threads which fit ISO general purpose metric screw threads, in the range from 2 mm up to and including 12 mm nominal thread diameter, for use in general engineering applications.
SANS 1700-6-6:2003/ ISO 15330:1999	*Fasteners – Part 6: Testing and acceptance inspection – Section 6: Fasteners – Preloading test for the detection of hydrogen embrittlement – Parallel bearing surface method.* Specifies a preloading test which is able to detect the occurence of hydrogen embrittlement of fasteners at room temperature. This test is applicable to metric bolts, screws and studs, thread rolling screws, self-tapping screws, self-drilling screws, nuts and washers which are made of steel and are under tensile stress.
SANS 1700-7-6:2003/ ISO 4162:1990	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 6: Hexagon flange bolts – Small series.* Gives specifications for hexagon flange bolts, small series, with threads from M5 up to and including M16 and property classes 8.8 to 10.9 and A2-70.
SANS 1700-7-7:2003/ ISO 7411:1984	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 7: Hexagon bolts for high-strength structural bolting with large width across flats (thread lengths according to SABS ISO 888) – Product grade C – Property classes 8.8 and 10.9.* Gives specifications for large series hexagon, high-strength structural bolts with metric dimensions in property classes 8.8 and 10.9, and thread sizes from M12 up to and including M36, with thread lengths according to ISO 888.
SANS 1700-7-8:2003/ ISO 7412:1984	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 8: Hexagon bolts for high-strength structural bolting with large width across flats (short thread length) – Product grade C – Property classes 8.8 and 10.9.* Gives specifications for large series hexagon, high-strength structural bolts with metric dimensions in property classes 8.8 and 10.9, and thread sizes from M12 up to and including M36, with short thread lengths.
SANS 1700-7-11:2003/ ISO 15071:1999	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 11: Hexagon bolts with flange – Small series – Product grade A.* Specifies the characteristics of hexagon bolts with flange, small series, with product grade A, with threads from M5 up to and including M16 and property classes 8.8, 9.8, 10.9, and A2-70.
SANS 1700-7-12:2003/ ISO 15072:1999	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 12: Hexagon bolts with flange with metric fine pitch thread – Small series – Product grade A.* Specifies the characteristics of hexagon bolts with flange with metric fine pitch thread, small series, with product grade A, with nominal thread diameters 8 mm up to and including 16 mm and property classes 8.8, 9.8, 10.9, 12.9 and A2-70.
SANS 1700-9-5:2003/ ISO 10664:1999	*Fasteners – Part 9: Hexagon socket head screws – Section 5: Hexalobular internal driving feature for bolts and screws.* Specifies the shape and basic dimensions of hexalobular internal driving feature for bolts and screws including the gauging method. Also specifies the curvature of the contour of the internal driving feature.
SANS 1700-11-5:2003/ ISO 7048:1998	*Fasteners – Part 11: Cross recessed head screws – Section 5: Cross recessed cheese head screws.* Specifies the characteristics of cross recessed cheese head screws in product grade A, with threads from M2,5 to M8 inclusive and with cross recesses type H and Z.
SANS 1700-13-8:2003/ ISO 10510:1999	*Fasteners – Part 13: Tapping screws – Section 8: Tapping screw and washer assemblies with plain washers.* Specifies the requirements for tapping screw and plain washer assemblies with spaced threads from ST2,2 to ST9,5 inclusive, flat seating heads and mechanical properties in accordance with ISO 2702. The plain washers are captive, i.e. prevented from disassembly and free to rotate.
SANS 1700-13-9:2003/ ISO 15480:1999	*Fasteners – Part 13: Tapping screws – Section 9: Hexagon washer head drilling screws with tapping screw thread.* Specifies the characteristics of hexagon washer head drilling screws with tapping screw threads from ST2,9 up to and including ST6,3.
SANS 1700-13-10:2003 (ISO 15481:1999)	*Fasteners – Part 13: Tapping screws – Section 10: Cross recessed pan head drilling screws with tapping screw thread.* Specifies the characteristics of cross recessed pan head drilling screws with tapping screw threads from ST2,9 up to and including ST6,3.

Standard No. and year	Title, scope and purport
SANS 1700-13-11:2003/ ISO 15482:1999	*SANS 1700 – Part 13: Tapping screws – Section 11: Cross recessed countersunk head drilling screws with tapping screw thread.* Specifies the characteristics of cross recessed countersunk head drilling screws with tapping screw threads from ST2,9 up to and including ST6,3.
SANS 1700-13-12:2003/ ISO 15483:1999	*Fasteners – Part 13: Tapping screws – Section 12: Cross recessed raised countersunk head drilling screws with tapping screw thread.* Specifies the characteristics of cross recessed raised countersunk head drilling screws with tapping screw threads from ST2,9 up to and including ST6,3.
SANS 1700-14-6:2003/ ISO 4161:1999	*Fasteners – Part 14: Hexagon nuts – Section 6: Hexagon nuts with flange – Coarse thread.* Specifies the characteristics of hexagon nuts with flange, with metric coarse threads from M5 to M20 inclusive, of product grade A for threads up to and including M16 and product grade B for threads above M16.
SANS 1700-14-8:2003/ ISO 4775:1984	*Fasteners – Part 14: Hexagon nuts – Section 8: Hexagon nuts for high-strength structural bolting with large width across flats - Product grade B – Property classes 8 and 10.* Gives specifications for large series hexagon, high-strength structural nuts with metric dimensions in property classes 8 and 10 and thread sizes from M12 up to and including M36 for use with high-strength structural bolts of property classes 8.8 and 10.9.
SANS 1700-14-10:2003/ ISO 7414:1984	*Fasteners – Part 14: Hexagon nuts – Section 10: Hexagon nuts for structural bolting with large width across flats, style 1 – Product grade B – Property class 10.* Gives specifications for large series hexagon nuts, style 1, property class 10, with metric dimensions and thread sizes from M12 up to and including M36, for use with bolts of property class 10.9.
SANS 1700-14-11:2003/ ISO 7417:1984	*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.* Gives specifications for hexagon nuts, style 2, with metric dimensions, property class 9 hot-dip galvanized in accordance with ISO 1461 and tapped oversize to tolerances class 6AX. Covers product grade A nuts in thread diameters from M10 up to and including M16.
SANS 1700-14-15:2003/ ISO 10663:1999	*Fasteners – Part 14: Hexagon nuts – Section 15: Hexagon nuts with flange – Fine pitch thread.* Specifies the characteristics of hexagon nuts with flange and metric fine pitch thread, with nominal thread diameters from 8 mm to 20 mm, in product grade A for $d \leq 16$ mm and product grade B for $d > 16$ mm.
SANS 1845:2003	*Prefinished sheet metal products for interior and exterior building applications.* Specifies performance requirements for prepainted and organic film/metal laminate products in sheet and strip form that are coated on one or both sides with an organic film, and are intended for fabrication into products for use in the construction or finishing of buildings. Classifies prefinished metal products into six types according to their performance and with respect to durability and aesthetics in environments of varying severity.
SANS 1882:2003	*Polymer concrete surface boxes, manhole and inspection covers, gully gratings and frames.* Covers the requirements for polymer concrete (reinforced plastic mortar) products for use as manhole covers and frames, valve chambers and frames, surface boxes and gully gratings.
SANS 1905:2003	*Hydraulic brake and clutch fluid (DOT 4 equivalent).* Covers fluids of the non-petroleum and the non-silicone types suitable for use in automotive hydraulic brake and clutch systems fitted with rubber cups and seals made from natural rubber (NR), styrene-butadiene rubber (SBR), or a terpolymer of ethylene, propylene and a diene (EPDM).
SANS 1915:2003	*Woven backfill bags and paddock curtains.* Covers requirements for the materials and the manufacture of woven backfill bags and paddock curtains for use in deep-level mining operations. Includes requirements for fibre composition, weave, mass per unit area, tensile strength, permeability, toxicity, yarn linear density, thickness of transfer tube walls, seam efficiency, style and make, size and support ties.
SANS 1922:2003	*Acidic cleaners for the cleaning of acid-resistant sanitary ware.* Covers two types of acidic cleaners for use in removing encrustations and stains from acid-resistant sanitary ware. Specifies acid content, moisture, iron content, insoluble matter content, fineness, sediment content, viscosity, surface tension, corrosiveness, effect on glazed ceramic ware and storage stability.
SANS 2394:2003/ ISO 2394:1998	*General principles on reliability for structures.* Specifies general principles for the verification of the reliability of structures subjected to known or foreseeable types of action. Reliability is considered in relation to the performance of the structure throughout its design working life. The general principles are applicable to the design of complete structures (buildings, bridges, industrial structures, etc.), the structural elements making up the structure and the foundations. Also applicable to the successive stages in construction, namely the fabrication of structural elements, the transport and handling of the structural elements, their erection and all work on site, as well as the use of the structure during its design working life, including maintenance and repair.
SANS 2860:2003/ ISO 2860:1992	*Earth-moving machinery – Minimum access dimensions.* Specifies the minimum dimensions for hand, head, body, arm and two-handed access on equipment and machinery as defined in SANS 261.
SANS 2867:2003/ ISO 2867:1994	*Earth-moving machinery – Access systems.* Specifies criteria for access systems – steps, ladders, walkways, platforms, grab rails (handrails), grab handles, guardrails and enclosure entrance and exit openings – as they relate to aiding the operator and servicemen in performing their functions on the machinery. Applies to access systems to the operator's station and to service points on earth-moving machinery as defined in SANS 261 while the machinery is parked in accordance with manufacturer's instructions.
SANS 3449:2003/ ISO 3449:1992	*Earth-moving machinery – Falling-object protective structures – Laboratory tests and performance requirements.* Establishes a consistent, repeatable means of evaluating characteristics of falling-object protective structures under loading and prescribes performance requirements for these structures under such loading in a representative test. Applies to the following types of operator-controlled machines: crawler loaders, wheel loaders and backhoe loaders, crawler tractors and wheel tractors, graders and tractor-scrapers.

Standard No. and year	Title, scope and purport
SANS 3450:2003/ ISO 3450:1996	*Earth-moving machinery – Braking systems of rubber-tyred machines – Systems and performance requirements and test procedures.* Specifies minimum performance and test criteria to assess the braking capability of earth-moving machinery operating on work sites or travelling on public roads. Covers service, secondary and parking brake systems and retarders. Applies to self-propelled, rubber-tyred loaders, tractors, graders, backhoe loaders, tractor-scrapers, excavators and dumpers.
SANS 3471:2003/ ISO 3471:1994	*Earth-moving machinery – Roll-over protective structures – Laboratory tests and performance requirements.* Establishes a consistent and reproducible means of evaluating the load-carrying characteristics of Roll-Over Protective Structures (ROPS) under static loading, and prescribes performance requirements for a representative specimen under such loading. Applies to the following seated design operator-controlled machines as defined in SANS 261: crawler tractors and loaders, graders, wheeled loaders and wheeled tractors, wheeled industrial tractors, the tractor portion (prime mover) of tractor scrapers, water wagons, etc., rollers and compactors, and rigid frame dumpers.
SANS 3834-1:2003/ ISO 3834-1:1994	*Quality requirements for welding – Fusion welding of metallic materials – Part 1: Guidelines for selection and use.* Gives guidelines used to describe welding quality requirements suitable for application by manufacturers using welding as a means of fabrication.
SANS 3834-2:2003/ ISO 3834-2:1994	*Quality requirements for welding – Fusion welding of metallic materials – Part 2: Comprehensive quality requirements.* Defines quality requirements for welding both in workshops and on site. Provides guidance for describing a manufacturer's capability to produce welded constructions to meet specified requirements. May be used as a basis for assessing the manufacturer with respect to his welding capability.
SANS 3834-3:2003/ ISO 3834-3:1994	*Quality requirements for welding – Fusion welding of metallic materials – Part 3: Standards quality requirements.* Defines quality requirements for welding both in workshops and on site. Provides guidance for describing a manufacturer's capability to produce welded constructions to meet specified requirements. May be used as a basis for assessing the manufacturer with respect to his welding capability.
SANS 3834-4:2003/ ISO 3834-4:1994	*Quality requirements for welding – Fusion welding of metallic materials – Part 4: Elementary quality requirements.* Defines quality requirements for welding both in workshops and on site. Provides guidance for describing a manufacturer's capability to produce welded constructions to meet specified requirements. May be used as a basis for assessing the manufacturer with respect to his welding capability.
SANS 3960:2003/ ISO 3960:2001	*Animal and vegetable fats and oils – Determination of peroxide value.* Specifies a method for the determination of the peroxide value of animal and vegetable fats and oils.
SANS 4593:2003/ ISO 4593:1993	*Plastics – Film and sheeting – Determination of thickness by mechanical scanning.* Specifies a method for the measurement of plain plastics film and sheeting, using mechanical. optical or electronic measuring devices. It is not suitable for use with embossed film or sheeting
SANS 4928:2003/ ISO 4928:1980	*Road vehicles – Elastomeric cups and seals for cylinders for hydraulic braking systems using a non-petroleum base hydraulic brake fluid (service temperature 120 °C max.).* Specifies performance tests of brake cups and seals for road vehicles (service temperature 120 °C max.).
SANS 4930:2003/ ISO 4930:1978	*Road vehicles – Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (service temperature 150 °C max.).* Specifies the performance testing of hydraulic disk brake cylinders and seals for road vehicles (service temperature 150 °C max.).
SANS 6211-1:2003	*Domestic solar water heaters – Part 1: Thermal performance using an outdoor test method.* Describes an outdoor test method for the determination of the thermal performance of domestic solar water heaters for determining the long term energy output of a domestic water heating system.
SANS 6683:2003/ ISO 6683:1981	*Earth-moving machinery – Seat belts and seat belt anchorages.* Establishes the minimum performance requirements for seat belts and the fastening elements of seat belts necessary to restrain an operator or rider within a roll-over protective structure (ROPS) in the event of a machine roll-over as defined in SANS 3471. Applies to earth-moving machinery fitted with ROPS.
SANS 6814:2003/ ISO 6814:2000	*Machinery for forestry – Mobile and self-propelled machinery – Terms, definitions and classification.* Defines terms which are determined by the end use of the machines as intended by the manufacturer, and gives guidance on the classification of mobile forestry machines. It is applicable to machines designed for use in forestry on site preparation, planting, harvesting, processing and transporting wood and wood fibre. It is not applicable to machines designed to be used exclusively in sawmills or wood yards, on-highway transport vehicles and aerial vehicles.
SANS 7438:2003/ ISO 7438:1985	*Metallic materials – Bend test.* Specifies the method for determining the ability of metallic materials to undergo plastic deformation in bending. Applies to the bend test of test pieces taken from metallic products as specified in the relevant product standard. It is not applicable to certain materials and/or products, for example tubes in full section or welded joints, for which other standards exist.
SANS 7799:2003/ ISO 7799:1985	*Metallic materials – Sheet and strip 3 mm thick or less – Reverse bend test.* Specifies the method for determining the ability of sheet and strip from metallic materials 3 mm thick or less to undergo plastic deformation in reverse bending. This method can be applied to aluminium and its alloys only after previous agreement.
SANS 7801:2003/ ISO 7801:1984	*Metallic materials – Wire – Reverse bend test.* Specifies the method for determining the ability of metallic wire of diameter or thickness 0,3 to 10 mm inclusive to undergo plastic deformation during reverse bending. The range of diameters or thicknesses for which this standard is applicable may be more exactly specified in the relevant product standard.
SANS 7802:2003/ ISO 7802:1983	*Metallic materials – Wire – Wrapping test.* Specifies the method for determining the ability of metallic wire of diameter or thickness 0,1 to 10 mm inclusive, to undergo plastic deformation during wrapping.

Standard No. and year	Title, scope and purport
SANS 8082:2003/ ISO 8082:2003	*Self-propelled machinery for forestry – Roll-over protective structures – Laboratory tests and performance requirements.* Establishes a consistent, reproducible means of evaluating the force-deflection characteristics of roll-over protective structures (ROPS) on self-propelled forestry machines under static loading, and prescribes performance requirements for a representative specimen under such loading. It is applicable to forwarders, skidders, feller-bunchers, processors, harvesters and loaders, as defined in SANS 6814. It is not applicable to machines having a rotating platform with a cab and boom on the platform.
SANS 8083:2003/ ISO 8083:1989	*Machinery for forestry – Falling-object protective structures – Laboratory tests and performance requirements.* Establishes a consistent, repeatable means of evaluating characteristics of falling-objects protective structures (FOPS) under loading; it sets performance requirements for these structures under such loading in a representative test. It applies to mobile or self-propelled specially-designed machines used in forestry as defined in SANS 6814.
SANS 8084:2003/ ISO 8084:2003	*Machinery for forestry – Operator protective structures – Laboratory tests and performance requirements.* Establishes a laboratory test method and performance requirements for operator protective structures (OPS) on forestry machines. It is applicable to mobile forestry machines as defined in SANS 6814 engaged in felling, processing, forwarding and skidding.
SANS 8491:2003/ ISO 8491:1998	*Metallic materials – Tube (in full section) – Bend test.* Specifies a method for determining the ability of full-section metallic tubes of circular cross-section to undergo plastic deformation in bending. It is intended for tubes with an outside diameter no greater than 65 mm, although the range of the outside diameter may be more exactly specified in the relevant product standard. Bend tests of the test pieces taken from tubes in the form of transverse strips should be made in accordance with SANS 7438 so as to increase the original curvature of the test piece.
SANS 8492:2003/ ISO 8492:1998	*Metallic materials – Tube – Flattening test.* Specifies a method for determining the ability of metallic tubes of circular cross-section to undergo plastic deformation by flattening. It may also be used to reveal the defects in the tubes. Is applicable to tubes having an outside diameter not greater than 600 mm and a thickness not greater than 15 % of the outside diameter. The range of the outside diameter or thickness may be more exactly specified in the relevant product standard.
SANS 8493:2003/ ISO 8493:1998	*Metallic materials – Tube – Drift-expanding test.* Specifies a method for determining the ability of metallic tubes of circular cross-section to undergo plastic deformation in drift expansion. Is intended for tubes having an outside diameter not greater than 150 mm (100 mm for light metals) and a thickness not greater than 10 mm although the range of the outside diameter or the thickness may be more exactly specified in the relevant product standard.
SANS 8494:2003/ ISO 8494:1998	*Metallic materials – Tube – Flanging test.* Specifies a method for determining the ability of metallic tubes of circular cross-section to undergo plastic deformation during flange formation. Is intended for tubes having an outside diameter not greater than 150 mm and a wall thickness not greater than 10 mm, although the range of diameters or wall thickness may be more exactly specified in the relevant product standard.
SANS 8495:2003/ ISO 8495:1998	*Metallic materials – Tube – Ring-expanding test.* Specifies a method for a ring-expanding test on tubes, that is used to reveal defects both on the surfaces and within the tube wall by expanding the test piece using a conical mandrel until fracture occurs. It may be also used to assess the ability of tubes to undergo plastic deformation. The ring-expanding test is applicable to tubes having an outside diameter from 18 mm up to and including 150 mm and a wall thickness from 2 mm up to and including 16 mm.
SANS 8496:2003/ ISO 8496:1998	*Metallic materials – Tube – Ring tensile test.* Specifies a method for a ring tensile test of tubes to reveal surface and internal defects by subjecting the test piece to strain until fracture occurs. This test may also be used to assess the ductility of tubes. The ring tensile test is applicable to tubes having an outside diameter exceeding 150 mm and a wall thickness no greater than 40 mm. The inside diameter shall be greater than 100 mm.
SANS 8601:2003/ ISO 8601:2000	*Data elements and interchange formats – Information interchange – Representation of dates and times.* Specifies the representation of dates in the gregorian calender and times and representations of periods of time.
SANS 8773:2003/ ISO 8773:1991	*Polypropylene (PP) pipes and fittings for buried drainage and sewerage systems – Specifications.* Specifies requirements for polypropylene (PP) homopolymer and copolymer pipes, fittings and joints with nominal outside diameters from 110 mm to 2 000 mm and for fittings with elastomeric sealing rings of nominal outside diameter from 110 mm to 400 mm, serving as buried gravity drain and sewer pipes for the transportation of soil and waste discharge of domestic origin.
SANS 10048:2003/ ISO 48:1994	*Rubber, vulcanized or thermoplastic – Determination of hardness (hardness between 10 IRHD and 100 IRHD).* Specifies four methods for the determination of the hardness of vulcanized rubber on flat and curved surfaces.
SANS 10085-1:2003	*The design, erection, use and inspection of access scaffolding – Part 1: Steel access scaffolding.* Covers steel access scaffolding commonly used for supporting workers and materials, plant or equipment during construction, maintenance and demolition work.
SANS 10244-1:2003/ EN 10244-1:2001	*Steel wire and wire products – Non-ferrous metallic coatings on steel wire – Part 1: General principles.* Specifies the requirements for the mass, other properties and testing of non-ferrous metal coatings on steel wire and steel wire products of circular or other cross-section. Deals with requirements of general application and is of use for those coatings for which no particular requirements have been laid down in SANS 10244-2, EN 10244-3, EN 10244-4, EN 10244-5 and EN 10244-6. Deviations are possible, particularly if required for well-defined products. In such cases, appropriate requirements shall be part of the relevant product standard.
SANS 10275:2003/ ISO 10275:1993	*Metallic materials – Sheet and strip – Determination of tensile strain hardening exponent.* Specifies a method for determining the tensile strain hardening exponent n of flat products (sheet and strip) made of metallic materials. The method is valid only for that part of the stress-strain curve in the plastic range where the curve is continuous and monotonic.
SANS 10299-0:2003	*Development, maintenance and management of groundwater resources – Part 0: Glossary of terms.* Covers the terms and definitions applicable to water boreholes.
SANS 10299-2:2003	*Development, maintenance and management of groundwater resources – Part 2: The design, construction and driling of boreholes.* Covers the requirements for the design, construction and drilling of machine-drilled boreholes.

Standard No. and year	Title, scope and purport
SANS 10299-7:2003	*Development, maintenance and management of groundwater resources – Part 7: The rehabilitation of water boreholes.* Specifies methods to be applied for the rehabilitation of water boreholes.
SANS 10299-8:2003	*Development, maintenance and management of ground water resources – Part 8: The management of water boreholes.* Covers the overall strategy requirements for the regular monitoring, inspection and maintenance of boreholes for water production purposes. Does not, however, cover the requirements for the monitoring, inspection and general systems maintenance of boreholes drilled for the purpose of exploration or recharge.
SANS 10299-9:2003	*Development, maintenance and management of groundwater resources – Part 9: The decommissioning of water boreholes.* Specifies methods to be applied for the decommissioning of all types of water boreholes to protect groundwater resources.
SANS 10372:2003	*Automotive fitment centers.* Covers the provisions for automotive fitment centres.
SANS 10383-1:2003	*Railway carriages for transporting persons with special needs – Part 1: Commuter carriages.* Covers the requirements for commuter carriages for transporting persons with special needs.
SANS 10396:2003	*Implementing preferential construction procurement policies using targeted procurement procedures.* Sets principles when formulating preferential procurement policies regarding targeted enterprises and targeted labour. Establishes a framework within which access to these markets can be provided, goals can be set, monitored and evaluated. Provides guidance as to how targeted procurement procedures can be activated on the design and implementation of programmes.
SANS 10399:2003	*Quality management systems – Requirements for bus operators.* Defines requirements of a quality management system for bus operators by describing the management processes needed to produce a product that meets customer and interested party expectations. Does not replace SANS 10047, which covers the examination and testing for roadworthiness of the vehicle(s), or any legislation applicable to the transportation of passengers.
SANS 10403:2003	*Formatting and compilation of construction procurement documents.* Establishes a format for the compilation of procurement documents for civil engineering activities and sets out the general principles for compiling the procurement documents.
SANS 10404:2003	*The design and safe use of underground mine rolling stock.* Specifies the technical aspects relating to the design, fabrication, maintenance and safe usage of underground track-bound rolling stock, excluding dedicated incline winder conveyance cars.
SANS 10746-4:2003/ ISO/IEC 10746-4:1998	*Information technology – Open distributed processing – Reference model: Architectural semantics.* The rapid growth of distributed processing has lead to a need for a coordinating framework for the standardization of Open Distributed Processing (ODP). This Reference Model of ODP provides such a framework. It creates an architecture within which support of distribution, interworking, interoperability and portability can be integrated. The Basic Reference Model of Open Distributed Processing (RM-ODP) is based on precise concepts derived from current distributed processing developments and, as far as possible, on the use of formal description techniques for specification of the architecture.
SANS 10968:2003/ ISO 10968:1995	*Earth-moving machinery – Operator's controls.* Specifies the requirements for the operator's primary controls on earth-moving machinery as they relate to the ride-on operator.
SANS 10993-1:2003/ ISO 10993-1:1997	*Biological evaluation of medical devices – Part 1: Evaluation and testing.* Describes the general principles governing the biological evaluation of medical devices, the categorization of devices based on the nature and duration of their contact with the body, and the selection of appropriate tests.
SANS 10993-5:2003/ ISO 10993-5:1999	*Biological evaluation of medical devices – Part 5: Tests for* in vitro *cytotoxicity.* Describes test methods to assess the *in vitro* cytotoxicity of medical devices. These methods specify the incubation of cultured cells either directly or through diffusion with extracts of a device, and/or in contact with a device. These methods are designed to determine the biological response of mammalian cells *in vitro* using appropriate biological parameters.
SANS 10993-11:2003/ ISO 10993-11:1993	*Biological evaluation of medical devices – Part 11: Tests for systemic toxicity.* Specifies methodologies for the evaluation of the systemic toxicity potential of medical devices which release constituents into the body. In addition, it includes pyrogenicity testing.
SANS 11169:2003/ ISO 11169:1993	*Machinery for forestry – Wheeled special machines – Vocabulary, performance test methods and criteria for brake systems.* Lays down the vocabulary and specifies performance test methods and criteria to enable uniform assessment of the service, secondary and parking brake systems of wheeled specially designed forestry machines. Applies to self-propelled, rubber-tyred special forestry machines defined in SANS 6814 as skidders, forwarders and the various feller-buncher combination machines.
SANS 11512:2003/ ISO 11512:1995	*Machinery for forestry – Tracked special machines – Performance criteria for brake systems.* Specifies performance test methods and criteria to enable uniform assessment of the service, secondary and parking brake systems of tracked specially designed forestry machines. Applies to self-propelled tracked special forestry machines with a maximum design speed of 20 km/h or less.
SANS 11850:2003/ ISO 11850:2003	*Machinery for forestry – Self-propelled machinery – Safety requirements.* Specifies safety requirements for common design aspects of mobile, ride-on, self-propelled forestry machines. Is applicable to fellers, bunchers, delimbers, forwarders, log loaders, skidders, processors, harvesters, and multi-function versions of these machine types, as defined in SANS 6814. Covers certain hazards common to forestry machinery, but does not, as a standard that addresses common requirements, deal with all the hazards (noise, vibration, thrown objects, etc.) which could exist on a particular machine.
SANS 12509:2003/ ISO 12509:1995	*Earth-moving machinery – Lighting, signalling and marking lights, and reflex-reflector devices.* Specifies the minimum requirements for installation and performance of lighting, signalling and marking lights, and reflex-reflector devices on earth-moving machines. Applies to self-propelled wheel or crawler earth-moving machines as defined in SANS 261, intended for off-road use as well as on-road use. Does not include pedestrian controlled machines.

Standard No. and year	Title, scope and purport
SANS 13253:2003/ ISO 13253:1995	*Ducted air-conditioners and air-to-air heat pumps – Testing and rating for performance.* Establishes performance testing and rating criteria for factory-made residential, commercial and industrial, electrically driven, mechanical-compression, ducted air-conditioners using air- and water-cooled condensers and ducted air-to-air heat pumps. The requirements of testing and rating contained in this standard are based on the use of matched assemblies.
SANS 13631:2003/ ISO 13631:2002	*Petroleum and natural gas industries – Packaged reciprocating gas compressors.* Gives requirements and recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged skid-mounted, reciprocating, separable or integral compressors with lubricated cylinders and their prime movers, for use in the petroleum and natural gas industries for the compression of hydrocarbon gas. Is also applicable to all necessary auxiliary equipment, such as water and gas coolers, silencers, emission control equipment, filters, separators, control panel, piping, etc., required to install an operable unit in compliance with the purchase specifications and with the intent of minimizing field construction and field-purchased equipment.
SANS 14236:2003/ ISO 14236:2000	*Plastics pipes and fittings – Mechanical-joint compression fittings for use with polyethylene pressure pipes in water supply systems.* Specifies the required properties and test methods for mechanical fittings intended to join polyethylene pressure pipes of nominal outside diameters not greater than 160 mm, used in water supply systems conveying potable water and water for general purposes at temperatures up to and including 40 °C.
SANS 14756:2003/ ISO/IEC 14756:1999	*Information technology – Measurement and rating of performance of computer-based software systems.* Defines how user oriented performance of computer-based software systems (CBSS) may be measured and rated.
SANS 14759:2003/ ISO/IEC TR 14759:1999	*Software engineering – Mock up and prototype – A categorization of software mock up and prototype models and their use.* Applies to any project which uses evolutionary development. Sets out the concepts associated with the production of mock ups and prototypes by identifying and describing the various deliveries which result.
SANS 14764:2003/ ISO/IEC 14764:1999	*Information technology – Software maintenance.* Describes in greater detail management of the Maintenance Process described in ISO/IEC 12207, establishes definitions for the various types of maintenance and provides guidance that applies to planning, execution and control, review and evaluation, and closure of the maintenance process.
SANS 15875-1:2003	*Plastics piping systems for hot and cold water installations – Crosslinked polyethylene (PE-X) – Part 1: General.* Specifies the general aspects of crosslinked polyethylene (PE-X) piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water, whether or not intended for human consumption (domestic systems), and for heating systems, under design pressures and temperatures according to the class of application. Covers a range of service conditions (application classes) and design pressure classes.
SANS 15875-2:2003	*Plastics piping systems for hot and cold water installations – Crosslinked polyethylene (PE-X) – Part 2: Pipes.* Specifies the characteristics of pipes made from crosslinked polyethylene (PE-X) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water, whether or not intended for human consumption (domestic systems), and for heating systems, under design pressures and temperatures appropriate to the class of application. Covers a range of service conditions, (application classes), design pressures and pipe dimension classes.
SANS 15875-3:2003	*Plastics piping systems for hot and cold water installations – Crosslinked polyethylene (PE-X) – Part 3: Fittings.* Specifies the characteristics of fittings for crosslinked polyethylene (PE-X) piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water, whether or not intended for human consumption (domestic systems), and for heating systems, under design pressures and temperatures appropriate to the class of application. Covers a range of service conditions (application classes) and design pressure classes.
SANS 15875-5:2003	*Plastics piping systems for hot and cold water installations – Crosslinked polyethylene (PE-X) – Part 5: Fitness for purpose of the system.* Specifies the characteristics of the fitness for purpose of crosslinked polyethylene (PE-X) piping systems, intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems, under design pressures and temperatures according to the class of application. Covers a range of service conditions (application classes) and design pressure classes.
SANS 15910:2003/ ISO/IEC 15910:1999	*Information technology – Software user documentation process.* Specifies the minimum process for creating all forms of user documentation for software which has a user interface. Such forms of documentation include printed documentation (e.g. user manuals and quick-reference cards), on-line documentation, help text and on-line documentation systems.
SANS 16326:2003/ ISO/IEC TR 16326:1999	*Software engineering – Guide for the application of ISO/IEC 12207 to project management.* Supplements SANS 12207, *Information technology – Software life cycle processes*, in the area of management process. Addresses aspects of project management that are either "software specific" or are known to cause problems in software projects in any of the SANS 12207 primary processes.
SANS 17117:2003/ ISO/TS 17117:2002	*Health Informatics – Controlled health terminology – Structure and high-level indicators.* Specifies the principal ideas which are necessary and sufficient to assign value to a controlled health terminology. Is applicable to all areas of healthcare about which information is kept or utilized.
SANS 18812:2003/ ISO 18812:2003	*Health informatics – Clinical analyser interfaces to laboratory information systems – Use profiles.* Specifies general messages for electronic information exchange between analytical instruments (AIs) and laboratory information systems (LISs) within a clinical laboratory. Is applicable to the specialities of clinical chemistry/biochemistry, haematology, toxicology, microbiology, virology and immunology. Covers the specification of messages used by communicating parties and the syntax in which they are communicated. Is applicable only to character-based message information.
SANS 19107:2003/ ISO 19107:2003	*Geographic information – Spatial schema.* Specifies conceptual schemas for describing the spatial characteristics of geographic features, and a set of spatial operations consistent with these schemas.

Standard No. and year	Title, scope and purport
SANS 19115:2003/ ISO 19115:2003	*Geographic information – Metadata.* Defines the schema required for describing geographic information and services. Provides information about the identification, the extent, the quality, the spatial and temporal schema, spatial reference, and distribution of digital geographic data.
SANS 19761:2003/ ISO/IEC 19761:2003	*Software engineering – COSMIC-FFP – A functional size measurement method.* Specifies the set of definitions, conventions and activities of the COSMIC-FFP Functional Size Measurement Method. Applicable to application software which is needed to support business administration, real-time software which keeps up with or controls events happening in the real world, or hybrids of the above.
SANS 20096:2003/ ECE R96:1995	*Uniform provisions concerning the approval of compression-ignition (C.I.) engines to be installed in agricultural and forestry tractors and in non-road mobile machinery with regard to the emissions of pollutants by the engine.* Applies to the emission of gaseous and particulate pollutants from C.I. engines used in Category G and T vehicles.
SANS 20110:2003/ ECE R110:2001	*Uniform provisions concerning the approval of: I. Specific components of motor vehicles using compressed natural gas (CNG) in their propulsion system; II. Vehicles with regard to the installation of specific components of an approved type for the use of compressed natural gas (CNG) in their propulsion system.* Applies to specific components of motor vehicles using compressed natural gas (CNG) in their propulsion system, and vehicles with regard to the installation of specific components of an approved type.
SANS 60034-23:2003/ IEC/TS 60034-23:2003	*Rotating electrical machines – Part 23: Specification for the refurbishing of rotating electrical machines.* Covers the activities necessary to ensure the satisfactory rewinding and refurbishing of all types and sizes of rotating electrical machines covered by IEC 60034.
SANS 60079-25:2003/ IEC 60079-25:2003	*Electrical apparatus for explosive gas atmospheres – Part 25: Intrinsically safe systems.* Contains specific requirements for the construction and assessment of intrinsically safe electrical systems, type of protection "i", intended for use, as a whole or in part, in explosive atmospheres in Group II locations. Is intended for use by the designer of the system who may be a manufacturer, a specialist consultant or a member of the end-user's staff. Supplements SANS 60079-11, the requirements of which apply to electrical apparatus used in intrinsically safe electrical systems. The installation requirements of a Group II system designed in accordance with this standard are specified in SANS 60079-14.
SANS 60670-22:2003/ IEC 60670-22:2003	*Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 22: Particular requirements for connecting boxes and enclosures.* Applies to connecting boxes for junctions or tappings (or both), and enclosures and parts of enclosures for electrical accessories with a rated voltage not exceeding 1 000 V a.c. and 1 500 V d.c. intended for household or similar fixed electrical installations, either indoors or outdoors. Boxes and enclosures that comply with this standard are suitable for use at ambient temperature not normally exceeding 25 °C but occasionally reaching 35 °C.
SANS 60745-2-18:2003/ IEC 60745-2-18:2003	*Hand-held motor-operated electric tools – Safety – Part 2-18: Particular requirements for strapping tools.* Deals with the safety of hand-held motor-operated or magnetically driven strapping tools, the rated voltage of the tools being not more than 250 V for single-phase a.c. or d.c. tools, and 440 V for three-phase a.c. tools.
SANS 60745-2-20:2003/ IEC 60745-2-20:2003	*Hand-held motor-operated electric tools – Safety – Part 2-20: Particular requirements for band saws.* Deals with the safety of hand-held motor-operated or magnetically driven band saws, the rated voltage of the saws being not more than 250 V for single-phase a.c. or d.c. tools, and 440 V for three-phase a.c. tools.
SANS 60793-1-48:2003/ IEC 60793-1-48:2003	*Optical fibres – Part 1-48: Measurement methods and test procedures – Polarization mode dispersion.* Applies to three methods of measuring polarization mode dispersion (PMD). Uniform requirements are established for measuring the PMD of optical fibre, thereby assisting in the inspection of fibres and cables for commercial purposes.
SANS 60793-1-49:2003/ IEC 60793-1-49:2003	*Optical fibres – Part 1-49: Measurement methods and test procedures – Differential mode delay.* Describes a method for characterizing the modal structure of a graded-index multimode fibre. This information is useful for assessing the bandwidth performance of a fibre when used with laser sources. Applies only to multimode, graded-index glass-core (category A1) fibres. The test method is commonly used in production and research facilities, but is not easily accomplished in the field.
SANS 60947-5-7:2003/ IEC 60947-5-7:2003	*Low-voltage switchgear and controlgear – Part 5-7: Control circuit devices and switching elements – Requirements for proximity devices with analogue output.* States the requirements for proximity devices with analogue output. They may consist of one or more parts. Applies to fuse terminal blocks with screw-type or screwless-type clamping units for the connection of rigid (solid or stranded) or flexible copper conductors for the reception of cartridge fuse-links in accordance with IEC 60127-2, intended primarily for industrial or similar use in circuits not exceeding 1 000 V a.c., up to 1 000 Hz or 1 500 V d.c., and having a maximum short-circuit breaking capacity of 1 500 A.
SANS 60947-7-3:2003/ IEC 60947-7-3:2002	*Low-voltage switchgear and controlgear – Part 7-3: Ancillary equipment – Safety requirements for fuse terminal blocks.* Applies to fuse terminal blocks with screw-type or screwless-type clamping units for the connection of rigid (solid or stranded) or flexible copper conductors for the reception of cartridge fuse-links in accordance with IEC 60127-2, intended primarily for industrial or similar use in circuits not exceeding 1 000 V a.c., up to 1 000 Hz or 1 500 V d.c., and having a maximum short-circuit breaking capacity of 1 500 A.
SANS 61000-4-30:2003/ IEC 61000-4-30:2003	*Electromagnetic compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods.* Defines the methods for measurement and interpretation of results for power quality parameters in 50/60 Hz a.c. power supply systems. The power quality parameters considered are power frequency, magnitude of the supply voltage, flicker, supply voltage dips and swells, voltage interruptions, transient voltages, supply voltage unbalance, voltage and current harmonics and interharmonics, mains signalling on the supply voltage and rapid voltage changes. The uncertainty tests in the ranges of influence quantities determine the performance requirements. Gives measurement methods but does not set thresholds.

Standard No. and year	Title, scope and purport
SANS 61056-2:2003/ IEC 61056-2:2002	*General purpose lead-acid batteries (valve-regulated types) – Part 2: Dimensions, terminals and marking.* Specifies the dimensions, terminals and marking for all general purpose lead-acid cells and batteries of the valve regulated type for either cyclic or float charge application; in portable equipment, e.g., incorporated in tools, toys, or in static emergency, or uninterruptible power supply and general power supplies. The cells of this kind of lead-acid battery may either have flat-plate electrodes in prismatic containers or have spirally wound pairs of electrodes in cylindrical containers. The sulphuric acid in these cells is immobilized between the electrodes either by absorption in a microporous structure or in a gelled form. Defines the dimensions of the batteries in length, height and width as well as the shapes of the terminals. The lead-acid cells and batteries described should be tested in accordance with SANS 61056-1/IEC 61056-1.
SANS 61056-3:2003/ IEC 61056-3:1991	*Portable lead-acid cells and batteries (valve-regulated types) – Part 3: Safety recommendations for use in electric appliances.* Applicable to lead-acid cells and batteries of the valve-regulated type for cyclic application e.g., portable equipment, tools, toys, etc. Object is to set rules for the accommodation of batteries as defined above in electric appliances, addressed mainly to the engineer designing such appliances, and to set minimum requirements concerning the range of safety-information passed on to the (unskilled) user; in order to prevent danger or damage to persons and/or material.
SANS 61084-2-2:2003/ IEC 61084-2-2:2003	*Cable trunking and ducting systems for electrical installations – Part 2-2: Particular requirements – Cable trunking systems and cable ducting systems intended for underfloor and flushfloor installations.* Specifies requirements for cable trunking systems and cable ducting systems intended for the accommodation, and where necessary for the segregation, of conductors, cables or cords and/or other electrical equipment in electrical installations. Applies to cable trunking systems and cable ducting systems which are mounted beneath or flush with the top face of the finished floor, including their system components.
SANS 61672-1:2003/ IEC 61672-1:2002	*Electroacoustics – Sound level meters – Part 1: Specifications.* Gives electroacoustical performance specifications for three kinds of sound measuring instruments: a conventional sound level meter that measures exponential time-weighted sound level, an integrating-averaging sound level meter that measures time-average sound level, and an integrating sound level meter that measures sound exposure level.
SANS 61672-2:2003/ IEC 61672-2:2002	*Electroacoustics – Sound level meters – Part 2: Pattern evaluation tests.* Provides details of the tests necessary to verify conformance to all mandatory specifications given in SANS 61672-1/IEC 61672-1:2002 for conventional sound level meters, integrating-averaging sound level meters and integrating sound level meters. Pattern evaluation tests apply for each channel of a multi-channel sound level meter, as appropriate. Tests and test methods are applicable to class 1 and class 2 sound level meters. The aim is to ensure that all testing laboratories use consistent methods to perform pattern evaluation tests
SANS 62056-21:2003/ IEC 62056-21:2002	*Electricity metering – Data exchange for meter reading, tariff and load control – Part 21: Direct local data exchange.* Describes hardware and protocol specifications for local meter data exchange. In such systems, a hand-held unit (HHU) or a unit with equivalent functions is connected to a tariff device or a group of devices.
SANS 62115:2003/ IEC 62115:2003	*Electric toys – Safety. Deals with the safety of toys that have at least one function dependent on electricity.*
SANS 62155:2003/ IEC 62155:2003	*Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1 000 V.* Applies to ceramic and glass hollow insulators intended for general use in electrical equipment and ceramic hollow insulators intended for use with a permanent gas pressure in switchgear and controlgear.These insulators are intended for indoor and outdoor use in electrical equipment, operating on alternating current with a rated voltage greater than 1 000 V and a frequency not greater than 100 Hz or for use in direct-current equipment with a rated voltage of greater than 1 500 V.

SCHEDULE 2: AMENDMENT OF EXISTING STANDARDS

The standards mentioned have been amended in terms of section 16(3) of the Act. The number and date of a standard that has been superseded appear in brackets below the new number. In the case of an amendment issued in consolidated format, the edition number of the new (consolidated) edition appears in brackets below the number of the standard.

Standard No. and year	Title, scope and purport
SANS 14:1994/ ISO 49:1994	*Malleable cast iron fittings threaded to ISO 7-1. ISO technical corrigendum No. 1.* Corrected to include the requirement that finished surfaces of fittings be free of polycyclic aromatic hydrocarbons and to include the appropriate test method for this requirement.
SANS 105-E01:1994/ ISO 105-E01:1994	*Textiles – Tests for colour fastness – Part E01: Colour fastness to water. ISO technical corrigendum No. 1.* Changed to correct an erroneous reference to linen and wool adjacent fabrics in table 1.
SANS 105-E02:1994/ ISO 105-E02:1994	*Textiles – Tests for colour fastness – Part E02: Colour fastness to sea water. ISO technical corrigendum No. 1.* Changed to correct an erroneous reference to linen and wool adjacent fabrics in table 1.
SANS 105-E04:1994/ ISO 105-E04:1994	*Textiles – Tests for colour fastness – Part E04: Colour fastness to perspiration. ISO technical corrigendum No. 1.* Changed to correct an erroneous reference to linen and wool adjacent fabrics in table 1.
SANS 211:2003/ CISPR 11:2003 (SABS CISPR 11:1999)	*Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement.* Specifies the limits and methods of measurement that apply to industrial, scientific and medical (ISM) equipment, and to electro-discharge machining (EDM) and arc welding equipment. Procedures are given for the measurement of radio-frequency disturbances, and limits are laid down within the frequency range 9 kHz to 400 GHz. Requirements for ISM lighting apparatus operating in the ISM frequency bands of 915 MHz (only allowed in region 2 as defined by the ITU Radio Regulations), 2,45 GHz and 5,8 GHz are contained in this standard. Requirements for other types of lighting apparatus are covered in SANS 215/CISPR 15 (SABS CISPR 15).

Standard No. and year	Title, scope and purport
SANS 216-1:2003/ CISPR 16-1:2002	*Specification for radio disturbance and immunity measuring apparatus and methods – Part 1: Radio disturbance and immunity measuring apparatus. CISPR amendment No. 2.* Amended to include measurement of parameters of an asymmetric artificial network in annex Q, to add two new normative annexes Y and Z, and to add the characteristics of discontinuous disturbances (clicks).
SANS 216-2:2003/ CISPR 16-2:2003 (SABS CISPR 16-2:2003)	*Specification for radio disturbance and immunity measuring apparatus and methods – Part 2: Methods of measurement of disturbances and immunity.* Specifies the methods of measurement of EMC phenomena in the frequency range 9 kHz to 18 GHz. It deals with disturbance measurement and immunity measurements.
SANS 266:2003 (Ed. 5.1)	*Gypsum plasterboard. Consolidated edition incorporating amendment No. 1.* Amended to implement an additional thickness and add an annex.
SANS 282:2003 (SABS 82:1997)	*Bending dimensions and scheduling of steel reinforcement for concrete.* Specifies bending dimensions, the methods of measuring bending dimensions and the scheduling of steel bars that are used for the reinforcement of concrete.
SANS 342:2003 (Ed. 3.2)	*Automotive diesel fuel. Consolidated edition incorporating amendment No. 2.* Amended to include requirements for lubricity for the low sulfur grade diesel, to update normative references and to delete note 3 from the table footnotes.
SANS 470:2003 (SABS 470:1993)	*Concrete poles for telephone, power and lighting purposes.* Specifies the dimensional and physical requirements of reinforced, partially prestressed and prestressed concrete poles, and the accompanying tests for compliance.
SANS 505:2003	*Specification for the elastic properties of flat, non-adhesive, extensible fabric bandages. National technical corrigendum No. 1.* Changed to correct errors in the third column of table 1 on sub-bandage pressure levels, quoted in kPa.
SANS 676:2003 (Ed. 3.3)	*Reinforced concrete pressure pipes. Consolidated edition incorporating amendment No. 3.* Amended to update referenced standards, to change a definition, to delete a reference to the standardization mark scheme and to add the correct titles of the different sections of SANS 10120 series in appendix A.
SANS 749:2003 (Ed. 3.3)	*Road tar binders prepared from Lurgi-gasification crudes. Consolidated edition incorporating amendment No. 3.* Amended to delete references to asbestos, to correct the number of a test method in table 1 and to delete the footnotes on the obtainability of details of suitable jets and the particular make of oven referred to in STPTC method RT11.
SANS 780:2003 (Ed. 3.1)	*Distribution transformers. Consolidated edition incorporating amendment No. 1.* Amended to update normative references and bibliography.
SANS 885:2003 (SABS 885:1974)	*Packaged meat products (processed or manufactured).* Specifies requirements for the production of packaged meat products (processed or manufactured) and requirements for the factory and employees.
SANS 924:2003 (SABS 924:1972)	*Stainless steel stall urinals.* Covers material, dimensional, and constructional requirements for 3 types of stainless steel stall urinals for installation in public buildings.
SANS 1020:2003 (SABS 1020:1975)	*Power-operated dispensing devices for flammable liquid fuels.* Covers the basic requirements for the components of free-standing power-operated dispensing and metering pump devices for flammable liquid fuels.
SANS 1186-1:2003 (Ed. 3.3)	*Symbolic safety signs – Part 1: Standard signs and general requirements. Consolidated edition incorporating amendment No. 3.* Amended to change the scope and the definition for lot, to replace references to SABS SM 182 with ISO 11341, SABS ISO 9001, SABS ISO 9002, SABS ISO 9003 with SANS 9001, to add and delete safety signs.
SANS 1253:2003 (SABS 1253:1994)	*Fire-doors and fire-shutters.* Covers the requirements for six classes of fire-door and fire-shutter assemblies that are intended to close permanent openings in walls or partitions, to provide a fire resistance of 30 min or more in order to stop the spread of fire and to limit the spread of smoke. Does not apply to fire dampers. (For fire dampers refer to SANS 193.)
SANS 1374:2003 (SABS 1374:1982)	*Toothbrushes.* Covers the requirements for toothbrushes of four sizes and five grades, having tufts of synthetic monofilaments, and is intended to be used manually for general oral hygiene.
SANS 1397:2003/ EN 397:1995	*Industrial safety helmets. EN amendment No. 1.* Amended to add a sentence to the scope referring to head injuries; add a normative reference; alter a note on "Ventilation"; add a new subclause "Label"; alter the subclause heading "Electrical insulation" for 5.2.3 and 6.10; delete and substitute a note on transverse resistance of a helmet shell; link the closing statement which relates to all three electrical insulation tests; alter the sentence indicating the number of helmets required for "Electrical insulation" tests; delete and replace the statement dealing with "Pre-conditioning"; delete and replace the references to sizing under "Construction"; delete notes 1 and 2(a) under test 2, for "Electrical insulation", add a new clause in "Marking"; substitute the words "relevant information" in 7.2.3; add a new figure 3 "Internal vertical distance and internal vertical clearance"; add annex C which is about uncertainty of measurement of test results; and add annex ZA which is about linking this standard to EU Directives.
SANS 1431:2003 (Ed. 1.6)	*Weldable structural steels. Consolidated edition incorporating amendment No. 6.* Amended to modify 3.2.1(b), to correct a grade designation in table 1, to modify the requirements for Nb and V for grade 300 WA and grade 300 WC steel in table 2, and to delete the comparison between this standard and BS 4360, and the reference to it.
SANS 1448:2003 (Ed. 1.1)	*Wax emulsion for coating citrus fruit. Consolidated edition incorporating amendment No. 1.* Amended to update the definition for acceptable, to change the approving authority for prohibited ingredients, to update various references, and to add a bibliography.
SANS 1473-1:2003 (SABS 1473-1:1996)	*Low-voltage switchgear and controlgear assemblies – Part 1: Type-tested, partially type-tested and specially tested assemblies with a rated short-circuit withstand strength above 10 kA.* Is applicable to stationary or movable type-tested, partially type-tested and specially tested assemblies with a rated short-circuit withstand strength above 10 kA, the rated voltage of which does not exceed 1 000 V a.c. at frequencies not exceeding 50 Hz, or 1 500 V d.c., that are intended for use with the generation, transmission, distribution and conversion of electrical energy and for the control of electric energy consuming equipment, that incorporate control equipment, or power equipment (or both), and are designed for use under normal or special service conditions.

Standard No. and year	Title, scope and purport
SANS 1475-1:2003 (SABS 1475-1:1998)	*The production of reconditioned fire-fighting equipment – Part 1: Portable rechargeable fire extinguishers.* Specifies the requirements for the reconditioning of portable rechargeable fire extinguishers. Also covers the guidelines for the management of the reconditioning organization.
SANS 1475-2:2003 (SABS 1475-2:1998)	*The production and reconditioning of fire-fighting equipment – Part 2: Fire hose reels, hydrants and booster connections.* Specifies the procedure for the reconditioning of fire hose reels, hydrants and booster connections. Also covers the management of a reconditioning organization.
SANS 1526:2003 (SABS 1526:1991)	*Thermoplastics sheeting for use as a geomembrane. Covers requirements for thermoplastics sheeting for use as geomembranes.*
SANS 1529-1:2003 (Ed. 2.2)	*Water meters for cold potable water – Part 1: Metrological characteristics of mechanical water meters of nominal bore not exceeding 100 mm. Consolidated edition incorporating amendment No. 2.* Amended to change the requirements for materials and for the installation of plastics meters; to change the hydraulic pressure requirements; to include an accuracy test; to change the temperature cycling test; to add a test for magnetic influence; to delete a requirement for meters intended to be installed in manifolds; to change the test conditions for the verification of water meters; and to update a normative reference.
SANS 1529-9:2003 (Ed. 1.1)	*Water meters for cold potable water – Part 9: Requirements for electronic indicators used with mechanical water meters, electronic water meters and electronic pre-payment water measuring systems. Consolidated edition incorporating amendment No. 1.* Amended to bring this part of SANS 1529 into line with amendments to SANS 1529-1, relax the requirements for checking facilities, shut off valves and plastics housings, clarify that certain requirements of SANS 1529-1 are applicable and to correct editorial errors.
SANS 1531:2003 (SANS 1531:1991)	*Wood-cased pencils and extruded plastics pencils, with graphite lead and coloured lead.* Specifies the characteristics of wood-cased graphite lead pencils (of 14 hardness degrees) and wood-cased coloured lead pencils for general writing, drafting and drawing purposes. Also specifies the characteristics of wood-cased graphite lead and coloured lead pencils intended for young children, and of extruded plastics graphite lead pencils and extruded plastics coloured lead pencils for general writing, drafting and drawing purposes.
SANS 1532:2003 (SANS 1532:1991)	*Vent valves for drainage installations.* Specifies the characteristics of vent valves intended for supplementary or alternative venting of drainage systems.
SANS 1567:2003 (SANS 1567:1992)	*Portable rechargeable fire extinguishers – CO_2 type extinguishers.* Specifies the characteristics of portable rechargeable fire extinguishers of the CO_2 type, of charge mass not exceeding 9 kg and suitable for use on class BC fires.
SANS 1578:2003 (Ed. 1.1)	*Durable organic powders for coating of external architectural aluminium. Consolidated edition incorporating amendment No. 1.* Amended to clarify the use of test panels or test pieces, to make natural weathering testing in Florida a requirement, to update references and to include a table that summarizes the responsibilities for and the frequencies of testing to be done.
SANS 1595:2003 (SANS 1595:1993)	*Forged steel lifting hooks for use with steel chains of strength grade M(4), P(5), S(6), T(8) and V(10).* Specifies the requirements for forged steel lifting hooks with point and eye, in a range of sizes compatible with the corresponding chain sizes of strength grade M(4), P(5), S(6), T(8) and V(10) chain complying with SANS 189 and SANS 1592.
SANS 1599-2:2003 (Ed. 1.1)	*Cranes – Part 2: Power-driven mobile cranes. Consolidated edition incorporating amendment No. 1.* Amended to update referenced standards in line with international standards.
SANS 1636:2003 (SABS 1636:1995)	*Manually operated chain lever hoists.* Specifies the characteristics of manually operated chain lever hoists.
SANS 1700-5-11:2003/ ISO 4042:1999 (SABS 1700-5-11:1996)	*Fasteners – Part 5: General requirements and mechanical properties – Section 11: Fasteners – Electroplated coatings.* Specifies dimensional requirements for electroplated fasteners of steel or copper alloy. Specifies coating thicknesses and gives recommendations for hydrogen embrittlement relief for fasteners with high tensile strength or hardness and for surface-hardened fasteners.
SANS 1700-6-2:2003/ ISO 3269:2000 (SABS 1700-6-2:1996)	*Fasteners – Part 6: Testing and acceptance inspection – Section 2: Fasteners – Acceptance inspection.* Specifies the acceptance inspection procedure that the purchaser of fasteners has to follow in order to determine whether a lot of fasteners will be accepted or rejected in cases where no other such procedure was agreed with the supplier at the time the fasteners were ordered. Applies to bolts, screws, studs, nuts, pins, washers, blind rivets and other related fasteners.
SANS 1700-6-5:1998/ ISO 10484: 1997	*Fasteners – Part 6: Testing and acceptance inspection – Section 5: Widening test on nuts. National amendment No. 1.* Amended to change the designation of SABS standards to SANS standards with no technical changes.
SANS 1700-7-1:2003/ ISO 4014:1999 (SABS 1700-7-1:1996)	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 1: Hexagon head bolts – Product grades A and B.* Gives specifications for hexagon head bolts with threads from M1,6 up to and including M64, of product grade A for threads M1,6 to M24 and nominal lengths up to and including 10 *d* or 150 mm, whichever is shorter and product grade B for threads over M24 or nominal lengths over 10 *d* or 150 mm, whichever is shorter.
SANS 1700-7-3:2003/ ISO 4016:1999 (SABS 1700-7-3:1996)	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 3: Hexagon head bolts – Product grade C.* Gives specifications for hexagon head bolts with threads from M5 up to and including M64 of product grade C.
SANS 1700-7-4:2003/ ISO 4017:1999 (SABS 1700-7-4:1996)	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 4: Hexagon head screws – Product grades A and B.* Gives specifications for hexagon head screws with threads from M1,6 up to and including M64, of product grade A for threads M1,6 to M24 and nominal lengths up to and including 10 *d* or 150 mm, whichever is shorter, and product grade B for threads over M24 or nominal lengths over 10 *d* or 150 mm, whichever is shorter.
SANS 1700-7-5:2003/ ISO 4018:1999 (SABS 1700-7-5:1996)	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 5: Hexagon head screws – Product grade C.* Gives specifications for hexagon head screws with threads from M5 up to and including M64, of product grade C.

Standard No. and year	Title, scope and purport
SANS 1700-7-9:2003/ ISO 8676:1999 (SABS 1700-7-9:1996)	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 9: Hexagon head screws with metric fine pitch thread - Product grades A and B.* Specifies the characteristics of hexagon head screws with metric fine pitch thread with nominal thread diameters *d* from 8 mm to 64 mm of product grade A for nominal thread diameters *d* from 8 mm to 24 mm and nominal lengths, *l*, up to and including 10*d* or 150 mm, whichever is shorter, and of product grade B for nominal thread diameters *d* over 24 mm or nominal lengths, *l*, over 10*d* or 150 mm, whichever is shorter.
SANS 1700-7-10:2003/ ISO 8765:1999 (SABS 1700-7-10:1996)	*Fasteners – Part 7: External drive hexagon bolts and screws – Section 10 : Hexagon head bolts with metric fine pitch thread – Product grades A and B.* Gives specifications for hexagon head bolts with metric fine pitch thread with nominal thread diameters *d* from 8 mm to 64 mm, of product grade A for nominal thread diameters *d* from 8 mm to 24 mm and nominal lengths, *l*, up to and including 10*d* or 150 mm, whichever is shorter, and of product grade B for nominal thread diameters *d* over 24 mm or nominal lengths, *l*, over 10*d* or 150 mm, whichever is shorter.
SANS 1700-14-1:2003/ ISO 4032:1999 (SABS 1700-14-1:1996)	*Fasteners – Part 14: Hexagon nuts – Section 1: Hexagon nuts, style 1 – Product grades A and B.* Gives specifications for hexagon nuts, style 1, with threads from M1,6 up to and including M64, with product grade A for threads $d \leq$ M16 and product grade B for threads $d >$ M16.
SANS 1700-14-2:2003/ ISO 4033:1999 (SABS 1700-14-2:1996)	*Fasteners – Part 14: Hexagon nuts – Section 2: Hexagon nuts, style 2 – Product grades A and B.* Specifies characteristics for hexagon nuts, style 2, with threads from M5 up to and including M36, with product grade A for threads $d \leq$ M16 and product grade B for threads $d >$ M16.
SANS 1700-14-3:2003/ ISO 4034:1999 (SABS 1700-14-3:1996)	*Fasteners – Part 14: Hexagon nuts – Section 3: Hexagon nuts – Product grade C.* Specifies the characteristics of hexagon nuts with threads from M5 up to and including M64 and product grade C.
SANS 1700-14-4:2003/ ISO 4035:1999 (SABS 1700-14-4:1996)	*Fasteners – Part 14: Hexagon nuts – Section 4: Hexagon thin nuts (chamfered) – Product grades A and B.* Specifies the characteristics of chamfered hexagon thin nuts, with threads from M1,6 up to and including M64, with product grade A for threads $d \leq$ M16 and product grade B for threads $d >$ M16.
SANS 1700-14-5:2003/ ISO 4036:1999 (SABS 1700-14-5:1996)	*Fasteners – Part 14: Hexagon nuts – Section 5: Hexagon thin nuts (unchamfered) – Product grade B.* Specifies the characteristics of unchamfered hexagon thin nuts, with threads from M1,6 up to and including M10 and product grade B.
SANS 1700-14-12:2003/ ISO 8673:1999 (SABS 1700-14-12:1996)	*Fasteners – Part 14: Hexagon nuts – Section 12: Hexagon nuts, style 1, with metric fine pitch thread – Product grades A and B.* Specifies the characteristics of hexagon nuts, style 1, with metric fine pitch thread, with nominal thread diameters *d* from 8 mm up to and including 64 mm, with product grade A for sizes *d* up to and including 16 mm and product grade B for sizes *d* over 16 mm.
SANS 1700-14-13:2003/ ISO 8674:1999 (SABS 1700-14-13:1996)	*Fasteners – Part 14: Hexagon nuts – Section 13: Hexagon nuts, style 2, with metric fine pitch thread – Product grades A and B.* Specifies the characteristics for hexagon nuts, style 2, with metric fine pitch thread, with nominal thread diameters *d* from 8 mm up to and including 36 mm, with product grade A for sizes *d* up to and including 16 mm and product grade B for sizes *d* over 16 mm.
SANS 1700-14-14:2003/ ISO 8675:1999 (SABS 1700-14-14:1996)	*Fasteners – Part 14: Hexagon nuts – Section 14: Hexagon thin nuts (chamfered) with metric fine pitch thread – Product grades A and B.* Specifies the characteristics of hexagon thin nuts (chamfered), with metric fine pitch thread, with nominal thread diameters *d* from 8 mm up to and including 64 mm, with product grade A for sizes *d* up to and including 16 mm and product grade B for sizes *d* over 16 mm.
SANS 1708:2003 (Ed. 1.1)	*Safety aspects of canopies as fitted to category N_1 and N_2 motor vehicles. Consolidated edition incorporating amendment No. 1.* Amended to delete the words "intended for the carriage of passengers" from the scope.
SANS 1718-3:2003 (SABS 1718-3:2002)	*Gaming equipment – Part 3: Monitoring and control systems for gaming equipment.* Specifies the requirements for gaming equipment that forms part of the monitoring and control system in a casino. Includes requirements for the hardware and software that comprise the system, for operational functionality, for communication protocols and for event messages. Compliance with this part of SANS 1718 forms part of the requirements set by the South African National and Provincial Gaming Regulators for the licensing of gaming equipment.
SANS 1765:2003 (SABS 1765:2000)	*Low-voltage switchgear and controlgear assemblies (distribution boards) with a rated short-circuit withstand strength up to and including 10 kA.* Is applicable to stationary or movable low-voltage switchgear and controlgear assemblies that have a rated short-circuit withstand strength up to and including 10 kA, a rated voltage that does not exceed 1 000 V a.c. at frequencies not exceeding 50 Hz, or 1 500 V d.c., that are intended for use in the generation, transmission, distribution and conversion of electrical energy and the control of electric energy consuming equipment, and are designed for use under normal or special service conditions.
SANS 1788:2003 (Ed. 1.1)	*Emulsion degreasers – Fire-retardant and non-combustible.Consolidated edition incorporating amendment No. 1.* Amended to update the definition for "acceptable", to delete the requirement for emulsifiable with oil and and all references to the certification body and to change the reference to the standard solvent-emulsion degreaser.
SANS 1796:2003 (Ed. 1.1)	*Coatings of durable organic powder for external architectural aluminium. Consolidated edition incorporating amendment No. 1.* Amended to include the requirements for the use of a powder that confirms either to SANS 1578 or a powder of an equivalent quality and to include a table that summarizes the responsibilities for and the frequency of testing to be done.
SANS 1808-31:2003 (Ed. 1.2)	*Water supply and distribution system components – Part 31: Automatic control valves. Consolidated edition incorporating amendment No. 2.* Amended to update referenced standards, to change the requirements for marking, to redefine "acceptable", to add a note to cross-reference the quality verification annex (annex B), and to delete reference to the certification mark from this annex.
SANS 1840:2003 (Ed. 1.2)	*Manufacture of measuring container bottles. Consolidated edition incorporating amendment No. 2.* Amended to add requirements for average capacity and for the calibration of measuring instruments and to add a normative reference.

Standard No. and year	Title, scope and purport
SANS 1841:2003 (Ed. 1.3)	*Control of the quantity of contents in prepacked packages within the legal prescriptions of the Trade Metrology Act and Regulations. Consolidated edition incorporating technical corrigendum No. 1 and amendment No. 2. Technical corrigendum 1.* Corrected to modify the formula of the target fill of the new group. *Amendment No. 2.* Amended to add a normative reference clause, to require calibration after repair of measuring instruments and to change "Inspector" to "auditor" throughout the document.
SANS 1848:2003 (Ed. 1.3)	*Geyser drip trays. Consolidated edition incorporating amendment No. 3.* Amended to correct the corner radius of vacuum formed drip trays.
SANS 3471:2003/ ISO 3471:1994	*Earth-moving machinery - Roll-over protective structures - Laboratory tests and performance requirements. ISO amendment No. 1.* Amended to add an additional paragraph to 7.3 and to replace table 2. *ISO technical corrigendum No. 1.* Changed to replace figure 15.
SANS 4930:2003/ ISO 4930:1978	*Road vehicles – Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (service temperature 150 °C max.). ISO erratum 1.* Changed to stress that the cycling humidity storage corrosion test should last for a total period of 12 days.
SANS 5037:2003 (SABS SM 37:1998)	*Paints and varnishes – Application by applicator blade.* Describes a method for obtaining a uniform film by means of a hand-held or a motor-driven applicator blade.
SANS 5148:2003 (SABS SM 148:1996)	*Paints and varnishes – Determination of through-dry state and through-dry time.* Specifies a method to determine whether a single-coat or a multi-coat system of paint or varnish has, after a specified drying period, reached the through-dry state. The time taken to reach the through-dry state can also be determined.
SANS 5153:2003 (SABS SM 153:2002)	*Paints and varnishes – Determination of viscosity by means of a Stormer viscometer.* Specifies the determination of the dynamic viscosity of liquids at a fixed frequency of rotation, i.e. constant stress. Provides useful information for the quality control of surface coating materials and related materials.
SANS 5175:2003 (SABS SM 175:1996)	*Paints and varnishes – Determination of washability (brush method).* Specifies a method for the determination of the washability of paints and varnishes.
SANS 5690:2003 (SABS SM 690:1978)	*Pesticides – Biological evaluation of the properties of solid fly baits.* Describes a method for conducting biological evaluation tests on solid fly baits.
SANS 5891:2003 (SABS SM 891:1976)	*Pesticides – Flammability of aerosols (flame projection test).* Describes the method to determine the ignition distance of an aerosol spray in order to assess the associated flame risk.
SANS 6172:2003 (Ed. 1.2)	*Fire extinguishers – Assessment of fire rating. Consolidated edition incorporating amendment No. 2.* Amended to delete the references to 93 octane petrol and to replace them with industrial heptane, to delete a note referring to the collapsing of crib, to add a requirement and to delete references to volume of petrol and to replace them with volume of liquid..
SANS 6258:2003 (SABS SM 1258:2001)	*Paints and varnishes – Determination of wet-scrub resistance, washability and cleanability of coatings.* Specifies accelerated methods for the determination of washability and wet-scrub resistance. With regard to the cleanability of paint coatings, only the method itself is specified, and not the soiling agents. Cleanability is assessed as a separate test on a coating that complies with the requirement for wet-scrub resistance.
SANS 6259:2003 (SABS SM 1259:1995)	*Paints and varnishes – Determination of brush and roller application properties.* Specifies a method of assessing the brush and roller application properties and the flow characteristics of paints when the paints are applied over relatively large areas. Can also be used to assess other properties such as recoating, lapping and retraction from sharp edges.
SANS 6279:2003 (SABS SM 1279:2002)	*Paints and varnishes – Determination of residue on sieve.* Describes a method for determining the residue on sieve from a sample of paint, varnish, paste or powder.
SANS 6280:2003 (SABS SM 1280:1998)	*Paints and varnishes – Application by dipping.* Describes a method for obtaining a uniform film by means of dipping. Dipping properties of a coating can also be determined.
SANS 6683:2003/ ISO 6683:1981	*Earth-moving machinery – Seat belts and seat belt anchorages. ISO amendment No. 1.* Amended to delete the existing field of application and insert the following: "This International Standard applies to earth-moving machinery and specially designed forestry machines fitted with ROPS as specified in SANS 3471."
SANS 10048:2003/ ISO 48:1994	*Rubber, vulcanized or thermoplastic – Determination of hardness (hardness between 10 IRHD and 100 IRHD). ISO amendment No. 1.* Amended to change the number of readings and to change the formula in annex A.
SANS 10124:2003 (SABS 0124:1995)	*The application of soil insecticides for the protection of buildings.* Gives guidance on the precautions to be taken when soil insecticides are handled, gives directives for the effective application of soil insecticides to building sites to protect buildings that are to be erected on the sites and to existing buildings (other than wooden structures in contact with the ground) against subterranean wood-destroying termites, and describes the action to be taken in the event of contamination or poisoning.
SANS 10136:2003 (SABS 0136:1978)	*The cleaning and disinfecting of dairy equipment and soft-serve dispensing units.* Covers provisions and recommendations for the cleaning and disinfecting of dairy equipment used in the production of milk and the processing and manufacture of milk products, and of soft-serve dispensing units.
SANS 10142-1:2003 (Ed. 1.1)	*The wiring of premises – Part 1: Low-voltage installations. Amendment No. 3.* Amended to delete implementation requirements and references to specific national legislation from the normative part of the standard, rearrange the requirements for distribution boards, clarify the rating requirements for earth leakage units, add requirements for the connection of flexible cords and the indication of the position of the main switch, and to update normative references.
SANS 10148:2003 (Ed. 1.1)	*The installation and operation of cable cranes and aerial rope-ways. Consolidated edition incorporating amendment No. 1.* Amended to include a bibliography; replace appendix A on Applicable standards with clause 2: Normative references and renumber subsequent clauses; and update references.

Standard No. and year	Title, scope and purport
SANS 10163-1:2003 (Ed. 2.3)	*The structural use of timber – Part 1: Limit-states design. Consolidated edition incorporating amendment No. 3.* Amended to correct the formulae in 13.2.2 and 13.5.7 and to correct references to SANS standards.
SANS 10164-2:2003 (Ed. 1.1)	*The structural use of masonry – Part 2: Structural design and requirements for reinforced and prestressed masonry. Consolidated edition incorporating amendment No. 1.* Amended to update normative references.
SANS 10173:2003 (SABS 0173:1980)	*The installation, testing and balancing of air-conditioning ductwork.* Gives provisions and recommendations for the installation, testing and balancing of high, low and medium pressure systems of ductwork for air-conditioning purposes.
SANS 10181:2003 (Ed. 1.6)	*The measurement of noise emitted by road vehicles when stationary. Consolidated edition incorporating amendment No. 6.* Amended to update references and to make reference to accredited laboratories.
SANS 10220:2003 (Ed. 1.1)	*The selection, use and maintenance of respiratory protective equipment. Consolidated edition incorporating amendment No. 1.* Amended to remove reference to a withdrawn standard, to add a definition for "light metals" and to renumber the remaining definitions accordingly, to add a description regarding emergency type respiratory protective equipment, to update the material requirements for respirators for use in flammable or explosive atmospheres, to delete reference to certain suitable alloys, to include reference to the marking of type and class on filters and to update referenced standards.
SANS 10281:2003 (Ed. 1.1)	*Engine speed (S values), reference sound levels and permissible sound levels of stationary road vehicles. Consolidated edition incorporating amendment No. 1.* Amended to update references.
SANS 10299-1:2003 (Ed. 1.1)	*Development, maintenance and management of groundwater resources – Part 1: The location and siting of water boreholes. Consolidated edition incorporating amendment No. 1.* Amended to update referenced standards and to delete the definitions, since reference has now been made to SANS 10299-0.
SANS 10299-4:2003 (Ed. 1.1)	*Development, maintenance and management of groundwater resources – Part 4: Test-pumping of water boreholes. Consolidated edition incorporating amendment No. 1.* Amended to delete the introduction, introduce normative references, renumber the subsequent clauses and delete definitions, since reference has now been made to SANS 10299-0.
SANS 10299-5:2003 (Ed. 1.2)	*Development, maintenance and management of groundwater resources – Part 5: The design, selection and performance of pumping equipment for production boreholes. Consolidated edition incorporating amendment No. 2.* Amended to update referenced standards and to delete the definitions, since reference has now been made to SANS 10299-0.
SANS 10299-6:2003 (Ed. 1.1)	*Development, maintenance and management of groundwater resources – Part 6: The installation and commissioning of pumping equipment for production boreholes. Consolidated edition incorporating amendment No. 1.* Amended to update referenced standards and to delete the definitions, since reference has now been made to SANS 10299-0.
SANS 10341:2003 (Ed. 1.1)	*Installation and maintenance of bearings – General guidelines. Consolidated edition incorporating amendment No. 1.* Amended to update reference standards to align with international standards.
SANS 10343:2003 (Ed. 1.1)	*Verification of non-automatic electronic self-indicating road vehicle mass measuring equipment for use by road traffic authorities. Consolidated edition incorporating amendment No. 1.* Amended to clarify definitions, clarify the application of permissible tolerances and bring them into line with international requirements, clarify that a statement of uncertainty of measurement on verification test results is not required, make provision for level measuring instruments not conforming to traceability requirements where a national standard is not available and amend test requirements for repeatability, stable equilibrium and correspondence of several indicators to cater for different methods and to clarify some requirements.
SANS 10746-4:2003/ ISO/IEC 10746-4:1998	*Information technology – Open distributed processing – Reference model: Architectural semantics. ISO/IEC amendment No. 1.* Amended to change "viewpoint languages" to "computational viewpoint language" throughout the text, the publication date for ITU T Recommendation Z.100 from "1993" to "1999" in the normative reference clause, and the title of 3.3 from "Definitions from the Z-Base Standard" to "Definitions from the Z notation; to include a new annex on computational formalization (annex A), the relationship of annex A (Computational formalization) to the main text of the standard, a reference in the introduction to clause 7 of ITU-T Rec. X.903 | ISO/IEC 10746-3, and a normative reference to ISO/IEC 13568, and a reference to "Z Notation, ISO/IEC JTC1 SC 22 WG 19 Advanced Working Draft 2.C, July 13th 1999; to update the list of definitions from ITU-T Recommendation in Z.100 in 3.2, and the list of definitions in 3.3.
SANS 13818-2:2003/ ISO/IEC 13818-2:2000 (SABS ISO/IEC 13818-2:1996)	*Information technology – Generic coding of moving pictures and associated audio information: Video.* Specifies the coded representation of picture information for digital storage media and digital video communication and specifies the decoding process. The representation supports constant bitrate transmission, variable bitrate transmission, random access, channel hopping, scalable decoding, bitstream editing, as well as special functions such as fast forward playback, fast reverse playback, slow motion, pause and still pictures. *ISO/IEC amendment No. 1.* Amended to add a number of new subclauses, and a new annex K on the impact of practices for non-progressive sequence bitstreams in consideration of progressive-scan display. *ISO/IEC technical corrigendum No. 1.* Corrected to replace the syntax table in subclause 6.2.2.2.1 on extension data with a new table, and to add subclause 6.3.4.2 on extension data.
SANS 14520-1:2000/ ISO 14520-1:2000	*Gaseous fire-extinguishing systems – Physical properties and system design – Part 1: General requirements. National amendment No. 1.* Amended to include reference to the use of HCFC extinguishants. *Technical corrigendum No. 1.* Corrected to include a reference to national regulatory requirements in the scope, to rectify cross-referencing, to increase the extinguishant concentration, to replace an equation for leakage characteristics (E.8), to reduce the value of the design concentration used in the calculation of predicted minimum hold time for enclosures with mixing, and to clarify the second calculation for hold time.
SANS 20001:1992/ ECE R1:1992	*Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam and/or a driving beam and equipped with filament lamps of categories R2 and/or HS1. National amendment No. 1.* Amended to add a condition for the compulsory application of the standard to the national foreword.

Standard No. and year	Title, scope and purport
SANS 20003:1996/ ECE R3:1996	*Uniform provisions concerning the approval of retroreflecting devices for power-driven vehicles and their trailers. ECE amendment No. 2.* Amended to add requirements for the application for approval and to change the trichromatic coordinates for amber retroreflecting devices. *National amendment No. 1.* Amended to add information relating to the compulsory application of the standard.
SANS 20005:1992/ ECE R5:1992	*Uniform provisions for the approval of motor vehicle "sealed beam" headlamps (SB) emitting a European asymmetrical passing beam or a driving beam or both. National amendment No. 1.* Amended to add information that relates to the compulsory application of the standard.
SANS 20007:2002/ ECE R7:2001	*Uniform provisions concerning the approval of front and rear position (side) lamps, stop-lamps and end-outline marker lamps for motor vehicles (except motor cycles) and their trailers.* *ECE amendment No. 1.* Amended to add requirements for the application for approval, the composition of the approval mark, the photometric measurement of lamps and for position (side) lamps, to change the test procedure for photometric and colorimetric tests and the transitional provisions, to add minimum angles required for light distribution and items to the communication list. *ECE amendment No. 2.* Amended to change the trichromatic coordinates of red and white. *National amendment No. 1.* Amended to add information that relates to the compulsory application of the standard.
SANS 20019:1993/ ECE R19:1993	*Uniform provisions concerning the approval of motor vehicle front fog lamps. National amendment No. 1.* Amended to add information relating to the compulsory application of the standard.
SANS 20020:1992/ ECE R20:1992	*Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with halogen filament lamps (H4 lamps). National amendment No. 1.* Amended to add information relating to the compulsory application of the standard.
SANS 20027:1998/ ECE R27:1998	*Uniform provisions for the approval of advance-warning triangles. National amendment No. 1.* Amended to add information relating to the compulsory application of the standard.
SANS 20043:1988/ ECE R43:1988	*Uniform provisions concerning the approval of safety glazing materials.* *ECE corrigendum 1 to ECE amendment 1.* Changed to insert a reference to footnote 2 in paragraph 8, to amend the reference to "figure 1" in paragraph 3.2.1 to read "figure 2.1", to clarify the dimensions of the square referenced in 6.1.2 of annex 14 and to correct the spelling of "manufacture" in annex 15. *ECE corrigendum 1 to ECE amendment No. 3.* Changed to amend the words "obscuration bands" to read "opaque obscuration", to amend "test area" to read "zone"; to delete paragraph 2.1.4 of annex 4, and to add a limit for the opaque obscuration. *National amendment No. 1.* Amended to add information that relates to the compulsory application of the standard.
SANS 20046:1988/ ECE R46:1988	*Uniform provisions concerning the approval of rear-view mirrors, and of motor vehicles with regard to the installation of rear-view mirrors. ECE amendment No. 1.* Amended to change the definition of rear-view mirror type, to change the table in the clause on special specifications, to change a requirement in the clause on modification of the type of rear-view mirror and extension of approval, and to replace the table and change requirements in the clause on requirements. *ECE amendment No. 2.* Amended to change the footnote in the clause on approval, to change requirements in the subclause on results of tests, to add a definition to the clause on definitions, and to change requirements in the subclause on field of vision.
SANS 20050:1983/ ECE R50:1983	*Uniform provisions concerning the approval of front position lamps, rear position lamps, stop lamps, direction indicators and rear-registration-plate illuminating devices for mopeds, motor cycles and vehicles treated as such.* *ECE amendment No. 2.* Amended to add a requirement for the colour of light emitted and to update the list of countries which have granted approval. *ECE amendment No. 3.* Amended to delete all definitions and to refer to the definitions given in Regulation No. 53 or No. 74, to exclude selective-yellow light, to delete footnote 4 and the figure given in paragraph 3 of annex 4, to add categories 11a, 11b and 11c for direction indicators, requirements for front or rear position lamps, marking requirements, transitional provisions and requirements for the photometric measurement of lamps, to insert a new figure in annex 1 and to change the title of paragraph 3. *ECE amendment No. 4.* Amended to add requirements for the application of approval, the measurement of luminous intensities, and photometric measurements and to change the trichromatic co-ordinates for amber. *National amendment No. 1.* Amended to add information relating to the compulsory application of the standard.
SANS 20070:1987/ ECE R70:1987	*Uniform provisions concerning the approval of rear marking plates for heavy and long vehicles.* *ECE amendment No. 3.* Amended to change the transitional provisions. *National amendment No. 1.* Amended to add information that relates to the compulsory application of the standard.
SANS 20091:1993/ ECE R91:1993	*Uniform provisions concerning the approval of side-marker lamps for motor vehicles and their trailers.* *ECE amendment No. 3.* Amended to add requirements for approval marking, a light source, and for colour of light emitted; to add transitional provisions and a limit for the vertical angle required for light distribution in space; to change the arrangement of approval marks, and the requirements for photometric measurements. *ECE amendment No. 4.* Amended to change the requirements for the application of approval, the trichromatic coordinates for amber and to add requirements for photometric measurements. *National amendment No. 1.* Amended to add information relating to the compulsory application of the standard.

Standard No. and year	Title, scope and purport
SANS 60044-2:2003 (Ed. 1.2)	*Instrument transformers – Part 2: Inductive voltage transformers. Consolidated edition incorporating IEC amendment No. 2.* Amended to add a definition and a note on instrument security factor, to change the requirements for rated continuous thermal current and the limits of current error and phase displacement for measuring current transformers, to add requirements for transmitted overvoltages, a marking requirement, and new figures.
SANS 60065:2003/ IEC 60065:2001 (SABS IEC 60065:1998)	*Audio, video and similar electronic apparatus – Safety requirements.* Applies to electronic apparatus designed to be fed from the mains, from a supply apparatus, from batteries or from remote power feeding and intended for reception, generation, recording or reproduction respectively of audio, video and associated signals. Also applies to apparatus designed to be used exclusively in combination with the above-mentioned apparatus. *IEC corrigendum No. 1.* Corrected to change a footnote symbol in the temperature rise table, and the details of a referenced standard in the annex on apparatus to be connected to the telecommunication networks.
SANS 60081:2003/ IEC 60081:2002 (Ed. 2.1)	*Double-capped fluorescent lamps – Performance specifications. Consolidated edition incorporating amendment No. 1.* Has been amended to replace the title page, to add lamp requirements and to replace and add new data sheets.
SANS 60099-4:2003/ IEC 60099-4:2001 (Ed. 1.2)	*Surge arresters – Part 4: Metal-oxide surge arresters without gaps for a.c. systems. Consolidated edition incorporating IEC amendment No. 2.* Amended to add normative references, definitions and requirements for arrester identification and classification, internal partial discharge, seal leak rate, short circuit test, residual voltage test, operating duty tests, tests of arrester disconnectors fault indicators, tests on polymer-housed surge arresters, requirements for separable and dead front arresters, liquid immersed arresters, mechanical considerations for surge arresters, and an annex on the determination of the voltage distribution along metal-oxide surge arresters.
SANS 60269-4:1986/ IEC 60269-4:1986	*Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices.* *IEC amendment No. 2.* Amended to change the reference of IEC 269-1 to IEC 60269-1 (SANS 60269-1), to replace requirements in subclauses for the following: semiconductor device, signalling device, rated voltage, test method for fuse-links, verification of conventional non-fusing and fusing current, and conventional cable overload protection, to add new text for conventional times and currents, breaking range and utilization category, markings on fuse-links, operation and arrangement of the fuse-link, and to replace table VIIA, table XIIA and table XIIB with new tables. *IEC corrigendum No. 1 to IEC amendment No. 2* (taken up into the text of IEC amendment No. 2). Changed to correct the explanation of I_{2a} and the time constant[c] in the tables for values for breaking-capacity tests on a.c. fuses and d.c. fuses.
SANS 60282-1:2003/ IEC 60282-1:2002 (SABS IEC 60282-1:1994)	*High-voltage fuses – Part 1: Current-limiting fuses.* Applies to all types of high-voltage current-limiting fuses designed for use outdoors or indoors on alternating current systems of 50 Hz and 60 Hz and of rated voltage exceeding 1 000 V. *IEC corrigendum No. 1.* Amended to correct referenced numbers of tables. *IEC amendment No. 2.* This part of SANS 60269 has been amended to change the reference of IEC 269-1 to IEC 60269-1, to replace requirements in subclauses for the following: semiconductor device, signalling device, rated voltage, test method for fuse-links, verification of conventional non-fusing and fusing current, and conventional cable overload protection, to add new text for conventional times and currents, breaking range and utilization category, markings on fuse-links, operation and arrangement of the fuse-link, and to replace table VIIA, table XIIA and table XIIB with new tables.
SANS 60311:2003/ IEC 60311:2002 (SABS IEC 60311:1997)	*Electric irons for household or similar use – Methods for measuring performance.* Applies to electric irons for household or similar use. States and defines the principal performance characteristics of electric irons for household or similar use which are of interest to the user and to describe the standard methods for measuring these characteristics. Includes dry irons; steam irons; spray irons; steam irons with separate water reservoir or boiler/generator having a capacity not exceeding 5 L.
SANS 60335-2-67:2003/ IEC 60335-2-67:2002 (SABS IEC 60335-2-67:1997)	*Household and similar electrical appliances – Safety – Part 2-67: Particular requirements for floor treatment and floor cleaning machines, for industrial and commercial use.* Deals with the safety of electric motor-operated appliances primarily designed for industrial and commercial use, with or without attachments, including appliances incorporating wet and/or dry suction, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances. Such appliances may be used for floor polishing (including waxing and buffing), scrubbing and grinding, scarifying and carpet shampooing. Appliances incorporating wet and/or dry suction shall also meet the appropriate requirements for industrial vacuum cleaners.
SANS 60335-2-92:2003/ IEC 60335-2-92:2002 (SABS IEC 60335-2-92:2000)	*Household and similar electrical appliances – Safety – Part 2-92: Particular requirements for pedestrian-controlled mains-operated lawn scarifiers and aerators.* Deals with the safety of pedestrian-controlled mains-operated electrical lawn scarifiers and aerators with rotating cutters for regenerating lawns by, for instance, combing out grass thatch and moss, or by cutting vertically into the lawn face. Designed primarily for use at and around the home or for similar purposes, their rated voltage being not more than 250 V single phase.
SANS 60372:1984/ IEC 60372:1984	*Locking devices for ball and socket couplings of string insulator units – Dimensions and tests. IEC amendment No. 2.* Amended to change some of the dimensions for split-pins (clause 5), for guidance of manufacturing only (clause 6) and for w-clips (clause 7).
SANS 60400:2003/ IEC 60400:2002 (Ed. 3.1)	*Lampholders for tubular fluorescent lamps and starterholders. Consolidated edition incorporating IEC amendment No. 1.* Amended to do editorial and technical changes, by addition of a definition and to change the requirements for construction, endurance and mechanical strength of lampholders, and to replace figures 6 and 10a with new figures.
SANS 60598-2-10:2003/ IEC 60598-2-10:2003 (SABS IEC 60598-2-10:1987)	*Luminaires – Part 2-10: Particular requirements – Portable luminaires for children.* Specifies requirements for portable luminaires for children and for use with tungsten filament lamps or single capped fluorescent lamps on a supply voltage not exceeding 250 V.
SANS 60598-2-20:2003/ IEC 60598-2-20:2002 (Ed. 1.2)	*Luminaires – Part 2-20: Particular requirements – Lighting chains. Consolidated edition incorporating IEC amendment No. 2.* Amended to do technical changes by changing the scope, adding three normative references, adding a note to the classification of luminaires, changing the definition under general test requirements for marking, construction of lampholders, compliance and external and internal wiring of luminaires.

Standard No. and year	Title, scope and purport
SANS 60662:2003/ IEC 60662:2002 (Ed. 1.10)	*High-pressure sodium vapour lamps. Consolidated edition incorporating IEC amendment No. 1.* Amended to add information for luminaire design.
SANS 60669-2-1:2003/ IEC 60669-2-1:2002 (SABS IEC 60669-2-1:1996)	*Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic switches.* Applies to electronic switches and to associated electronic extension units for household and similar fixed electrical installations either indoors or outdoors. Applies to electronic switches for the operation of lamp circuits and the control of the brightness of lamps (dimmers) as well as the control of the speed of motors and for other purposes.
SANS 60669-2-2:2003/ IEC 60669-2-2:2002 (Ed. 1.1)	*Switches for household and similar fixed electrical installations – Part 2: Particular requirements – Section 2: Remote-control switches (RCS). Consolidated edition incorporating IEC amendment No. 1.* Amended to change the title and the scope, to add normative references, new definitions, requirements for classification, marking, construction, insulation resistance and electric strength and for creepage distances and clearances.
SANS 60694:2003/ IEC 60694:2002 (Ed. 2.2)	*Common specifications for high-voltage switchgear and controlgear standards. Consolidated edition incorporating IEC amendment Nos. 1 and 2 and IEC corrigenda Nos. 1 and 2* *IEC amendment No. 1.* Has been amended to add normative references, to change the requirements for rated supply voltage of closing and opening devices and the requirement for auxiliary and control circuits, elctromagnetic compatibility, and to add an informative annex EMC site measurements. *IEC amendment No. 2.* Amended to add normative references, replace the dielectric tests on auxiliary and control circuits, add extra tests on auxiliary circuits for functionality, continuity, withstand current and environmental effects. *IEC corrigendum No. 1.* Corrected to add requirements for ambient air conditions during tests and to introduce two types of auxiliary contacts. *IEC corrigendum No. 2.* Corrected to add a reference to IEC 60255-5 for the impulse voltage withstand tests.
SANS 60730-2-8:2003/ (Ed. 1.1)	*Automatic electrical controls for household and similar use – Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements. Consolidated edition incorporating IEC amendment No. 1.* Amended to add new requirements for valves and to align this part of SANS 60730 with SANS 60730-1.
SANS 60745-2-6:2003/ IEC 60745-2-6:2003 (SABS IEC 60745-2-6:1989)	*Hand-held motor-operated electric tools – Safety – Part 2-6: Particular requirements for hammers.* Deals with the safety of hand-held motor-operated or magnetically driven hammers, the rated voltage of the hammers being not more than 250 V for single-phase a.c. or d.c. hammers, and 440 V for three-phase a.c. hammers.
SANS 60745-2-8:2003/ IEC 60745-2-8:2003 (SABS IEC 60745-2-8:1982)	*Hand-held motor-operated electric tools – Safety – Part 2-8: Particular requirements for shears and nibblers.* Deals with the safety of hand-held motor-operated or magnetically driven shears and nibblers, the rated voltage of the shears and nibblers being not more than 250 V for single-phase a.c. or d.c. shears and nibblers, and 440 V for three-phase a.c. shears and nibblers.
SANS 60745-2-12:2003/ IEC 60745-2-12:2003 (SABS IEC 60745-2-12:1982)	*Hand-held motor-operated electric tools – Safety – Part 2-12: Particular requirements for concrete vibrators.* Deals with the safety of hand-held motor-operated or magnetically driven concrete vibrators, the rated voltage of the vibrators being not more than 250 V for single-phase a.c. or d.c. vibrators, and 440 V for three-phase a.c. vibrators.
SANS 60794-1-2:2003/ IEC 60794-1-2:2003 (SABS IEC 60794-1-2:1999)	*Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures.* Applies to optical fibre cables for use with telecommunication equipment and devices employing similar techniques, and to cables having a combination of both optical fibres and electrical conductors. The object is to define test procedures to be used in establishing uniform requirements for the geometrical, transmission, material, mechanical, ageing (environmental exposure) and climatic properties of optical fibre cables, and electrical requirements where appropriate.
SANS 60947-1:2003/ IEC 60947-1:2001 (Ed. 3.2)	*Low-voltage switchgear and controlgear – Part 1: General rules. Consolidated edition incorporating amendment No. 2.* Amended to update references, to add requirements for metallic screen for testing, a dust test and an informative annex for lug sizes; to change requirements for EMC, type test conditions and installation instructions and to delete the contact pressure test and the table in annex H.
SANS 60947-2:2003/ IEC 60947-2:2003 (SABS IEC 60947-2:1995)	*Low-voltage switchgear and controlgear – Part 2: Circuit-breakers.* Applies to circuit-breakers, the main contacts of which are intended to be connected to circuits, the rated voltage of which does not exceed 1 000 V a.c. or 1 500 V d.c.; it also contains additional requirements for integrally fused circuit-breakers.
SANS 60947-7-1:2003/ IEC 60947-7-1:2002 (SABS IEC 60947-7-1:1989)	*Low-voltage switchgear and controlgear – Part 7-1: Ancillary equipment – Terminal blocks for copper conductors.* Specifies requirements for terminal blocks with screw-type or screwless type terminals primarily intended for industrial or similar use and to be fixed to a support to provide electrical and mechanical connection between copper conductors. Applies to terminal blocks intended to connect round copper conductors, with or without special preparation, having a cross-section between 0,2 mm^2 and 300 mm^2 intended to be used in circuits of a rated voltage not exceeding 1 000 V a.c. up to 1 000 Hz or 1 500 V d.c.
SANS 60947-7-3:2003/ IEC 60947-7-3:2002	*Low-voltage switchgear and controlgear – Part 7-3: Ancillary equipment – Safety requirements for fuse terminal blocks. Technical corrigendum No. 1.* Corrected to modify the titles of figures and tables and text and to replace figure A.1 and its title with a new one.

Standard No. and year	Title, scope and purport
SANS 61000-4-6:2003/ IEC 61000-4-6:2003 (SABS IEC 61000-4-6:2002)	*Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields.* Relates to the conducted immunity requirements of electrical and electronic equipment to electromagnetic disturbances coming from intended radio-frequency (RF) transmitters in the frequency range 9 kHz up to 80 MHz. Equipment not having at least one conducting cable (such as mains supply, signal or earth connection) which can couple the equipment to the disturbing RF fields is excluded. The object of this standard is to establish a common reference for evaluating the functional immunity of electrical and electronic equipment when subjected to conducted disturbances induced by radio-frequency fields. The test method documented describes a consistent method to assess the immunity of an equipment or system against a defined phenomenon.
SANS 61029-2-5:1993/ IEC 61029-2-5:1993	*Safety of transportable motor-operated electric tools – Part 2-5: Particular requirements for band saws. IEC amendment No. 1.* Amended to add requirements for construction.
SANS 61195:1999/ IEC 61195:1999	*Double-capped fluorescent lamps – Safety specifications. IEC technical corrigendum No. 1.* Changed to correct the tolerance for dimension E, given in figure A.1, Holder for torsion tests on lamps with bi-pin caps.
SANS 61238-1:2003/ IEC 61238-1:2003 (SABS IEC 61238-1:1993)	*Compression and mechanical connectors for power cables for rated voltages up to 30 kV (U_m = 36 kV) – Part 1: Test methods and requirements.* Applies to compression and mechanical connectors for power cables for rated voltages up to 30 kV (U_m = 36 kV), e.g. buried cables or cables installed in buildings, having conductors complying with IEC 60228 and IEC 60228A with cross-sectional areas of 10 mm^2 and greater for copper and 16 mm^2 and greater for aluminium, and a maximum continuous conductor temperature not exceeding 90 °C.
SANS 61643-1:2003/ IEC 61643-1:2002 (Ed. 1.1)	*Surge protective devices connected to low-voltage power distribution systems – Part 1: Performance requirements and testing methods. Consolidated edition incorporating IEC amendment No. 1.* Amended to add normative references and definitions, to change general requirements, test requirements and test procedures, to replace figures 5 and 7, to replace figure 10 with figures 10(a) and 10(b), figure 12 with figures 12(a) and 12(b), and to add table B.1 (TOV values) to annex B.
SANS 62035:2003/ IEC 62035:2003 (Ed. 1.1)	*Discharge lamps (excluding fluorescent lamps) – Safety specifications. Consolidated edition incorporating amendment No. 1.* Amended to change the scope and the requirements for metal halide lamps, protection against UV radiation, and possible conditions at end of lamp life, to replace the requirements for markings, dimensions of lamp caps, and the tables on pull test values, temperatures and maximum lamp cap temperatures, to add new terms and definitions, a clause on assessment and new normative references on conditions of compliance for design tests and symbols and to exclude glass from tests for thermal requirements.
SANS 62271-102:2003/ IEC 62271-102:2001	*High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches. IEC corrigendum No. 2.* Corrected to change the title, to add new parts to the series listed in the table for common numbering of IEC 62271 publications and to change some of the titles of the specific parts, to replace figures 5 and 6, to correct cross-references, the tolerance for power frequency recovery voltage, and the percentage deviation of the contact speed of disconnectors under test.
SANS 300429:2003/ EN 300429:1998 (SABS ETS 300429:1994)	*Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems.* Describes the framing structure, channel coding and modulation for a digital multi-programme television distribution by cable. The aim of this standard is to present a harmonized transmission standard for cable and satellite, based on the MPEG-2 System Layer ISO/IEC 13818-1, with the addition of appropriate Forward Error Correction (FEC) technique.

SCHEDULE 3: CANCELLATION OF STANDARDS

In terms of section 16(3) of the Act the following standards have been cancelled.

Standard No. and year	Title
SANS 145:1971	*Solid filler wire for gas-shielded metal-arc welding of mild steel and medium-high tensile steel*
SANS 172:1994	*Low-voltage fuses*
SANS 454:1988	*Colour and monochrome television receivers, monitors, tuners and projectors*
SANS 1065-1:1985	*Metal conduits and fittings (screwed-end and plain-end) for electrical wiring – Part 1: Metal conduits*
SANS 1065-2:1986	*Metal conduits and fittings (screwed-end and plain-end) for electrical wiring – Part 2: Metal fittings*
SANS 1116-1:1996	*Retro-reflective registration plates for motor vehicles – Part 1: Blanks (metal)*
SANS 1116-3:1996	*Retro-reflective registration plates for motor vehicles – Part 3: Blanks (plastics)*
SANS 1155:1977	*The manufacture of surgical rubber gloves (single use)*
SANS 1256:1985	*Acidic lavatory bowl cleaner*
SANS 1257:1985	*Liquid acid cleaner*
SANS 1355-3:1984	*ISO metric machine screws and nuts, hexagon socket screws and set-screws (coarse thread series) – Part 3: Set-screws*
SANS 1599-0-7:1995	*Cranes – Part 0: General – Section 7: Limiting and indicating devices*
SANS 1599-4-1:1995	*Cranes – Part 4: Overhead travelling cranes and portal bridge cranes – Section 1: Classification*
SANS 1599-4-3:1995	*Cranes – Part 4: Overhead travelling and portal bridge cranes – Section 3: Tolerances for cranes and tracks*

Standard No. and year	Title
SANS 1599-4-5:1995	*Cranes – Part 4: Overhead travelling and portal bridge cranes – Section 5: Design principles for loads and load combinations*
SANS 1635-1:1996	*Fork-lift trucks and pallet trucks – Part 1: Fork-lift trucks*
SANS 1779:1997	*High-voltage fuses*
SANS 6211:1992	*Domestic solar water heaters – Thermal performance*
SANS 10127:1976	*The selection, use, and maintenance of underwater diving equipment*
SANS 10128:1976	*Cleaning and disinfection of soft-serve dispensing units*
SANS 10214:1987	*The design, fabrication and inspection of articles for hot-dip galvanizing*
SANS 60521:1988	*Alternating-current electromechanical watt-hour meters (classes 0.5, 1 and 2)*
SANS 61036:2000	*Alternating current static watt-hour meters for active energy (classes 1 and 2)*
SANS 61107:1996	*Data exchange for meter reading, tariff and load control – Direct local data exchange*
SANS 300279:1999	*Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for Private land Mobile Radio (PMR) and ancillary equipment (speech and/or non-speech)*
SANS 300682:1997	*Radio Equipment and Systems (RES) – ElectroMagnetic Compatibility (EMC) standard for On-Site Paging equipment*
SANS 300683:1997	*Radio Equipment and Systems (RES) – ElectroMagnetic Compatibility (EMC) standard for Short Range Devices (SRD) operating on frequencies between 9 kHz and 25 GHz*

SCHEDULE 4: ADDRESSES OF SABS OFFICES

The addresses of offices of the South African Bureau of Standards where copies of standards mentioned in this notice can be obtained, are as follows:

1. The President, South African Bureau of Standards, 1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria 0001.
2. The Manager, Western Cape Regional Office, SABS, Liesbeek Park Way, Rosebank, PO Box 615, Rondebosch, 7701.
3 The Manager, Eastern Cape Regional Office, SABS, 30 Kipling Road, cor Diaz and Kipling Roads, Port Elizabeth, PO Box 3013, North End 6056.
4. The Manager, KwaZulu-Natal Regional Office, SABS, 15 Garth Road, Waterval Park, Durban, PO Box 30087, Mayville 4058.
5. The Control Officer, Bloemfontein Branch Office, SABS, 34 Victoria Road, Willows, Bloemfontein, PO Box 20265, Bloemfontein, 9320.

KRK6/2/3/A/4/1/0/2003/7 (C162)	E Cloete	Erf 1363 Goodwood	4047m²	T16632/43 T19885/55	Owner	18/11/1996
KRK6/2/3/A/4/2117/0/400 (F131)	T Fredericks	Erf 8932 Goodwood	5205m²	T19634/53 T4610/72	Owner	28/11/1996
KRK6/2/3/A/4/12314/0/201 (G179)	J Gordon	Erf 1902 Goodwood	495m²	T14633/57 T4194/60	Owner	09/05/1997
KRK6/2/3/A/3/0/1794/3 (S174)	WJ Solomon	Erf 12070 Parow	3965m²	T17689/59 T9174/68	Owner	06/05/1996

The Commission on Restitution of Land Rights will investigate these claims in terms of provisions of the Act in due course. Any party who has an interest in the above-mentioned land is hereby invited to submit, within 60 days from the publication of this notice, any comments / information to:
The Regional Land Claims Commission: Western Cape
Private Bag X9163
Cape Town
8000
Tel: 021*426-2930
Fax: 021*424-5146
B. Jansen

Regional Land Claims Commissioner