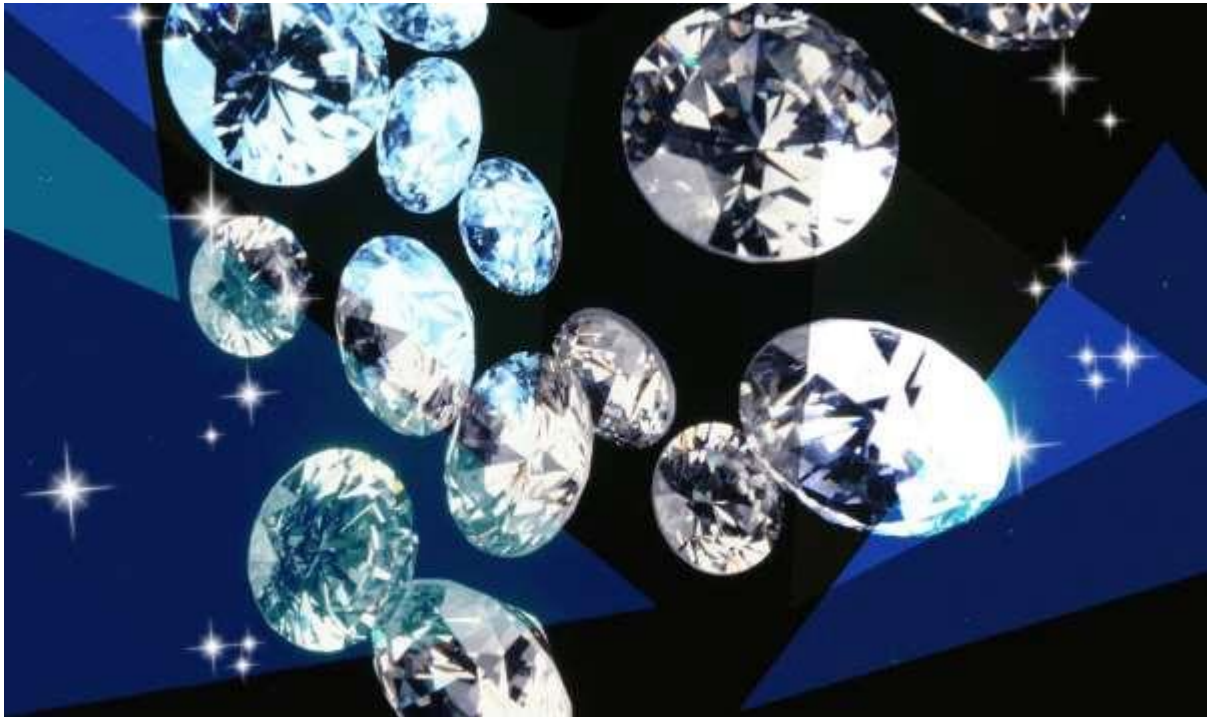


# BOTSWANA BUREAU OF STANDARDS



**STANDARDS CATALOGUE  
JUNE 2018**

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## **MISSION STATEMENT**

Our mission is:

To establish and promote national standards in order to enhance trade, benefit business and protect consumers and the environment.

## **Vision Statement**

To be recognized for excellence in standardization services.

## **BOBS Values**

- Innovation
- Diligence
- Transparency
- Team Spirit
- Botho





The standards published by BOBS are subject to periodical review and revision. The reader is therefore advised to contact the Information Centre for the latest version of the standard.

# About Botswana Bureau of Standards

## Introduction

The Botswana Bureau of Standards catalogue reflects all BOS standards that have been printed. The catalogue is reviewed twice a year to reflect the new standards that would have been published in between.

## Background

Following the adoption of the Standards Act by the Botswana Parliament in 1995, the Botswana Bureau of Standards (BOBS) became a Parastatal in April 1997 as envisaged in the Act. A twelve (12) member Standards Council heads the organization. BOBS is the official body responsible for all issues related to standardization and quality assurance at the national level. BOBS is also a full member of the International Organization for Standardization (ISO), the national contact point for all Southern African Development Community (SADC) programmes related to standardization and quality assurance and the national Enquiry Point for standards regulations under the World Trade Organization Technical Barriers to Trade Agreement (WTO/TBT).

BOBS was formed with the primary objectives of formulating Botswana standards and coordinating quality assurance activities in Botswana, with the mission to improve the quality of life of the citizens of Botswana. This is done through the following departments: Standards, Regulatory Compliance, Commercial Enterprise, and Corporate Services.

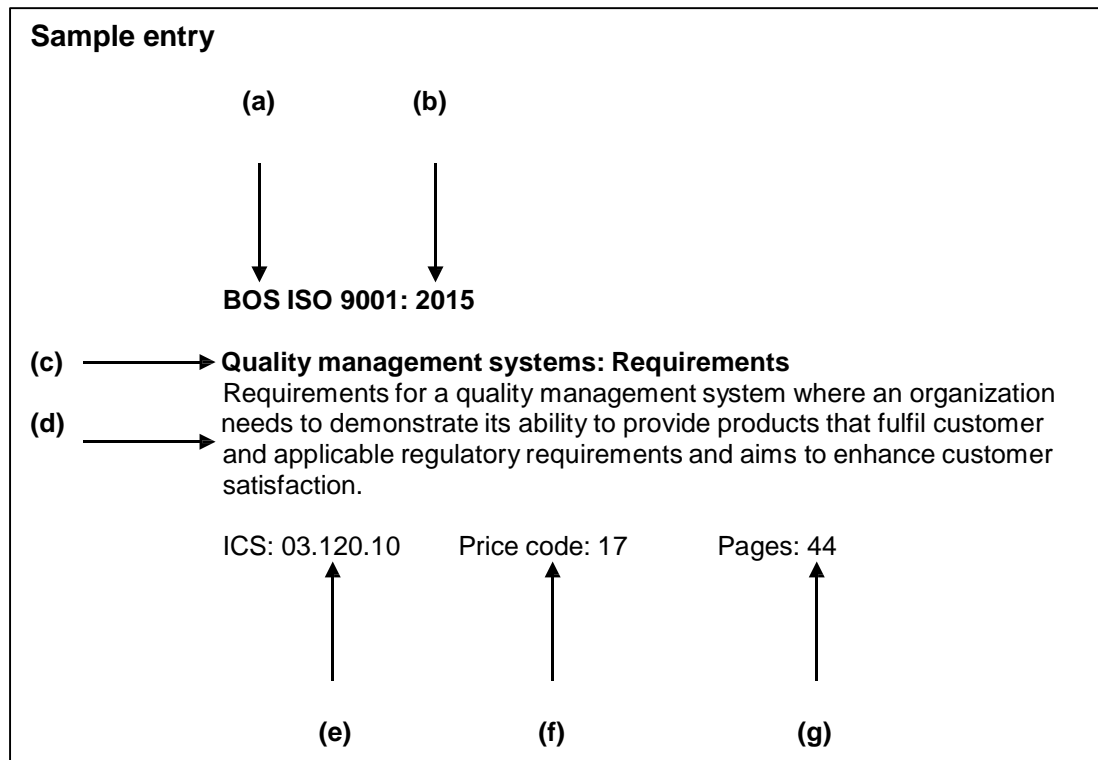
## Information Centre

BOBS Information Centre is a depository of technical and technological information. The Centre is an international reference point for information about standards, technical regulations and certification systems in Botswana.

The range of standards available at the Centre includes, Botswana, regional and international standards. These standards are not available on loan, but can be used by anyone for reference purposes in the centre. The other alternative is of course to buy and details are found in the next section (**How to place an order**)

## How to use the catalogue

Botswana standards are arranged in numerical order and by subject with an alphabetical subject index.



- |    |  |    |                     |
|----|--|----|---------------------|
| a) | Code of the standards                  | b) | Year of publication |
| c) | Title                                  | d) | Scope               |
| e) | Classification number for the standard | f) | Price code          |
| g) | Number of pages                        |    |                     |

## How to place your order

Botswana Standards (BOS) are available at our Information Centre.

### (a) Customers from within Botswana

Clients outside Gaborone may fax or mail their orders. Always quote the standard number as shown in the catalogue and/or quotation to avoid making mistakes.

Payment is by cash or company cheque in (Pula). Money can be deposited into BOBS bank account directly and proof of payment faxed or sent by email. The account number is availed upon request.

### (b) Customers outside Botswana

Botswana Standards may be obtained through respective countries' national standards bodies. Payment is by bank drafts in US Dollars payable to Botswana Bureau of Standards.

## For enquiries please contact:

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## Price Table

The prices for Botswana Standards are subject to change without notice.

### PRICES FOR BOTSWANA STANDARDS

CODE	NO. OF PAGES	BOS PRICE (BWP)
1	1-2	35.00
2	3-4	45.00
3	5-6	50.00
4	7-8	65.00
5	9-10	80.00
6	11-12	100.00
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10	19-20	155.00
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18	46-50	360.00
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21	61-65	435.00
22	66-80	445.00
23	81-85	465.00
24	86-90	580.00
25	91-	625.00



## List of abbreviations

AFD	Agriculture and Food Division
ASTM	American Society for Testing and Materials
BCD	Building and Construction Division
BOBS	Botswana Bureau of Standards
BOS	Botswana Standard
BWP	Botswana Currency (Pula)
CD	Chemicals Division
EED	Electrical Engineering Division
EMD	Environmental Management Division
GPD	General Purpose Division
ICS	International Classification for Standards
ISO	International Organization for Standardization
MED	Mechanical Engineering Division
SABS	South African Bureau of Standards
TCD	Clothing & Textiles

## List of Technical Committees (TC's)

No.	TC Code	Name of TC
1	AFD1	Fruits and vegetables
2	AFD2	Animal feeding stuffs
3	AFD3	Cereal and pulses
4	AFD4	Milk and milk products
5	<a href="#">AFD5</a>	<a href="#">Bakery products</a>
6	AFD6	Fruit and vegetables drinks
7	AFD7	Meat, poultry, fish, egg and their products
8	AFD8	Beekeeping and bee products
9	BCD1	Cement, Lime and Masonry Units
10	BCD2	Tiles
11	BCD3	Roads
12	BCD4	Concrete, reinforced concrete, pre-stressed, precast concrete and related products
13	BCD4	Plastics Pipes & Accessories
14	BCD5	Steel for Construction
15	BCD6	Timber and timber products
16	BCD7	Furniture
17	BCD8	Building Environment Design
18	CD1	Paints and varnishes
19	CD2	Stationery
20	CD3	Laboratory and Industrial Chemicals
21	CD4	Occupational Health and Safety
22	CD5	Hygiene Maintenance Cleaning & Chemicals
23	CD6	Plastic Products
24	EED1	Solar photovoltaic energy systems
25	EED2	Electrical Installations and Accessories
26	EED3	Telecommunications and accessories
27	EED4	Solar Thermal
28	EED5	Safety and performance of household and similar electrical appliances
29	EED6	Galvanic cells and batteries
30	EMD1	Environmental Management
31	EMD2	Water quality
32	GPD1	Quality Management Systems
33	GPD2	Hotels and related establishments
34	GPD3	Casino Equipment
35	<a href="#">GPD4</a>	<a href="#">National COPOLCO</a>
36	GPD5	Packaging and labelling
37	GPD6	Geographic Information and Geomatics
38	GPD7	Social Responsibility
39	GPD8	Risk Management and Societal Security
40	MED1	Metal Castings
41	MED2	Liquefied Petroleum Gas (LPG)
42	MED3	Solid Fuel Fired Equipment
43	MED4	Window & Doorframes
44	MED5	Motor Vehicles
45	MED6	Fire Safety
46	MED7	Agricultural Machinery & Farm Implements
47	MED8	Welding and Allied Processes
48	<a href="#">MED11</a>	<a href="#">Lifting Equipment</a>
49	MED10	Petroleum Products and Lubricants
50	TCD1	Textile and Clothing
51	TCD2	Leather and Leather Products
52	TCD3	Arts and crafts

# International Classification for Standards (ICS)

## Main ICS Subject Fields

01	Generalities. Terminology. Standardization. Documentation
03	Sociology. Services. Company Organization and Management. Administration. Transport
07	Mathematics. Natural Sciences
11	Health Care Technology
13	Environment and Health Protection. Safety
17	Metrology and Measurement. Physical Phenomena
19	Testing
21	Mechanical Systems and Components for General Use
23	Fluid Systems and Components for General Use
25	Manufacturing Engineering
27	Energy and Heat Transfer Engineering
29	Electrical Engineering
31	Electronics
33	Telecommunications
35	Information Technology. Office Equipment
37	Image Technology
39	Precision Mechanics. Jewellery
43	Road Vehicle Engineering
45	Railway Engineering
47	Ship Building and Marine Structures
49	Aircraft and Space. Vehicle Engineering
53	Materials Handling Equipment
55	Packaging and Distribution of Goods
59	Textile and Leather Technology
61	Clothing Industry
65	Agriculture
67	Food Technology
71	Chemical Technology
73	Mining and Minerals
75	Petroleum and Related Technologies
77	Metallurgy
79	Wood Technology
81	Glass and Ceramics Industries
83	Rubber and Plastics Industries
85	Paper Technology
87	Paint and Colour Industries
91	Construction Materials and Building
93	Civil Engineering
95	Military Engineering
97	Domestic and commercial equipment. Entertainment. Sports

# Catalogue

## Botswana standards listed in numerical order

### **BOS 1: 2008 2<sup>nd</sup> ed. Water taps (metallic)**

Requirements for three classes of screw-down and non -screw-down metallic water taps (including stop taps) for the supply of water at temperatures not exceeding 75 °C.

ICS: 23.040.40

Price code: 12

Pages: 24

### **BOS 2 – 1: 2005 2<sup>nd</sup> ed. Solar photovoltaic energy systems - Part 1: Design and installation on buildings - Code of practice**

Requirements for design and installation of photovoltaic energy systems on buildings such as Domestic, school, office and industrial buildings, whose total power does not exceed 10 000 watt peak.

ICS: 27.160

Price code: 16

Pages 36

### **BOS 3-1: 2002 The handling, storage & distribution of liquefied petroleum gas in domestic, commercial & industrial installations – Part 1: Liquefied petroleum gas installations involving gas storage containers of individual water capacity not exceeding 500 l & a combined water capacity not exceeding 3 000 l per installation**

This part of Botswana Standard gives recommendations of the materials, the methods of construction and installation of equipment used in the handling, storage or distribution of liquefied petroleum gas in domestic, commercial and industrial installations that involve gas storage containers of individual water capacity not exceeding 500 l and of a combined water capacity not exceeding 3 000 l. It also gives recommendations regarding the installation of appliances, piping, fittings and other components. It covers the maintenance, inspection and testing of the various components of equipment. It does not cover any installation to caravans or mobile homes.

ICS: 23.020.30

Price code: 19

Pages: 52

### **BOS 3-2:2017 The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations. Part 2: Installation of LPG systems in mobile units, including but not limited to caravans, motor homes , park homes and mobile kitchens**

ICS: 75.200

Price code: 16

Pages: 40

### **BOS 3-3: 2011 The handling, storage and distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations – Part 3: Liquefied petroleum gas (LPG) installations involving storage vessels of individual water capacity exceeding 500 l – Specification**

This part of Botswana Standard specifies requirements for the layout, design and installation of liquefied petroleum gas equipment and of storage vessels of individual water capacity exceeding 500 l and associated vaporizers, pipe work and fittings up the outlet of the first pressure reduction stage in the line. Recommendations are also given in regard to the fitting of automatic and other devices (operative in the event of physical damage to the installation) for the purpose of ensuring maximum security, for the storage of the gas from a design point of view, and for limiting the escape of liquid through normal pressure-relief fittings.

It also covers provisions for underground and above ground liquefied petroleum gas (LPG) storage tanks and associated equipment such as pumps, dispensers and pipework at service stations, container filling sites and consumer installations.

It also covers dedicated LPG dispensing stations.

It does not cover refrigerated LPG storage.

ICS: 23.020.30

Price code: 18

Pages: 48

**BOS 3-4: 2005**                      **The handling, storage & distribution of liquefied petroleum gas in domestic, commercial & industrial installations - Part 4: Transportation of LPG in bulk by road – Code of practice**

This part of the code of practice contains recommendations for the design, construction, inspection, fittings and filling ratio of tanks used in transportation of LPG in bulk by road, the design of vehicles and ancillary equipment, and operating practice.

ICS: 23.020.30

Price code 10

Pages 20

**BOS 3 – 7: 2011**                      **The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations - Part 7: Storage and filling sites for refillable liquefied petroleum gas (LPG) containers of capacity not exceeding 9kg and the storage of individual gas containers not exceeding 48kg – Code of practice**

This part of BOS 3 specifies the minimum requirements for the location and installation of and operations at the storage and filling sites for refillable liquefied petroleum gas (LPG) containers of capacity not exceeding 9kg and the storage of individual gas containers of capacity not exceeding 48kg. It identifies safe methods of filling and storing refillable containers and makes recommendations towards safe working procedures that cover all aspects of the storage and filling of refillable containers.

This standard also covers the storage of non-refillable containers.

ICS: 23.020.30

Price code: 13

Pages 28

**BOS 4: 2012 2<sup>nd</sup> ed.**                      **Tomato – Grading requirements**

This Botswana Standard applies to fresh tomatoes of varieties “or cultivars” grown from *Lycopersicon esculentum Mill*, which are for direct human consumption and excludes tomatoes for industrial processing. It is intended to define the quality attributes of fresh tomato after harvesting and to grade them according to the different quality levels. It also covers aspects of pesticide residue limits and post-harvest activities, all intended for marketing purposes

ICS: 67.080.20

Price code: 8

Pages 16

**BOS 5: 2009 2<sup>nd</sup> ed. See page 109**

**BOS 6-1: 2016**                      **Symbolic safety signs – Part 1: Standard signs and general requirements**

Requirements for standard ordinary non-reflective symbolic safety signs, including signs applied on mirrors or on vinyl sheets (decals). The standard also specifies general requirements applicable to self-luminous (radio-luminescent), internal illuminated, retro-reflective and photo-luminescent symbolic safety signs (complete with their backing sheets, where applicable).

This standard does not cover road signs.

ICS: 01.080.10; 13.100

Price code: 23

Pages 84

**BOS 8 – 1: 2008 see page 109**

**BOS 8 – 2: 2012 2<sup>nd</sup> ed.**                      **Poultry feeds – Part 2: Ostrich feeds – Specification**

This Botswana Standard specifies the basic requirements for ostrich feeds

ICS: 65.120

Price code: 8

Pages: 16



**BOS 16: 2010 2<sup>nd</sup> ed.                      Metal roofing tiles - Specification**

This standard covers the requirements for metal roofing tiles (coated or uncoated) supplied in the form of carbon steel sheets, aluminium alloy sheets or stainless steel sheets (each comprising a series of simulated tile units), and for trim sections (of the same materials) designed for use in conjunction with tile units of the same material and appropriate profile.

ICS: 77.140.50; 77.150.10; 91.06.20

Price code: 10

Pages: 20

**BOS 17: 2000                                      Cutback bitumen**

Requirements for medium curing (ML) cutback for road construction and similar purposes

ICS 75.140

Price code: 10

Pages: 20

**BOS 18: 2000                                      Cationic bitumen road emulsions**

Requirements for three types (of the appropriate grade(s) given in table 1) of cationic bitumen road emulsions suitable for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.

ICS: 75.140

Price code: 8

Pages: 16

**BOS 19: 2000                                      Stationery - Ball point pens**

Requirements for single – cartridge ballpoint pens, replacement refills and direct-fill ball point pens, which have black, blue, green or red inks.

ICS: 97.180

Price code: 13

Pages: 28

**BOS 20: 2000                                      Paints and vanishes – Primers for wood for interior and exterior use**

Covers primers for wood for interior and exterior use.

ICS: 87.040

Price code: 8

Pages: 16

**BOS 21: 2000                                      Paints and vanishes – Decorative high gloss enamel paint for interior and exterior use**

Covers the following types of ready mixed decorative high gloss alkyd base enamel paint for interior and exterior use as a finishing coat on metal, wood, sealed plaster walls and concrete surfaces, composition board, and similar materials that have been primed or painted previously.

ICS: 87.040

Price code: 13

Pages: 28

**BOS 22: 2000                                      Paints and vanishes – Bituminous aluminium paint**

Covers one type of bituminous aluminium paint for interior and exterior use on primed metal, masonry asbestos cement, and wood surfaces.

ICS: 87.040

Price code: 10

Pages: 20

**BOS 23: 2000                                      Paints and vanishes – Finishing paint aluminium type**

Covers the following grades of aluminium paint for use as a finishing coat on primed surfaces for interior and exterior exposure.

ICS: 87.040

Price code: 12

Pages: 24

**BOS 24: 2009                                      Concrete roofing tiles - Specification**

The Botswana Standard specifies the requirements for concrete roofing tiles, limited to those described in the text, for assembly into pitched roof coverings.

ICS: 91.100.30

Price code: 12

Pages: 24

**BOS 25: 2008 2<sup>nd</sup> ed. see page 109**

**BOS 26: 2009 2<sup>nd</sup> ed. see page 109**

**BOS 27: 2000 Concrete masonry units**

Precast solid and precast hollow concrete masonry units for use in walling.

ICS: 91.100.30

Price code: 12

Pages: 24

**BOS 28: 2016 Burnt clay masonry units**

This standard covers burnt clay masonry units for use in masonry walling

ICS: 91.100.20

Price code: 13

Pages: 28

**BOS 29: 2016 Concrete paving blocks**

Covers blocks made from concrete, which are used for the construction of paved surfaces.

ICS: 91.100.30; 93.080.20

Price code: 12

Pages: 24

**BOS 30: 2000 Burnt clay paving units**

Specifies the characteristics of burnt clay paving units.

ICS: 91.100.15; 91.100.20; 93.100.20

Price code: 8

Pages: 16

**BOS 32: 2015 3<sup>rd</sup> ed. Drinking water - Specification**

Specifies the quality of acceptable drinking water, defined in terms of microbiological, organoleptic and chemical determinants.

Water that complies with this Botswana standard is deemed to present an acceptable health risk for lifetime consumption.

ICS: 13.060.20

Price code: 8

Pages: 16

**BOS 33: 2000 Anionic bitumen road emulsions**

Requirements for stable-mix type grade 60 anionic bitumen road emulsion suitable for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.

ICS: 75.140

Price code: 8

Pages: 16

**BOS 34: 2009 Flexible vinyl flooring – Specification**

This Botswana Standard specifies the characteristics of smooth-surfaced flexible vinyl flooring, in tile or sheeting form. The flooring may be marbled or mottled throughout its thickness.

ICS: 75.140

Price code: 12

Pages: 24

**BOS 35: 2000 Fibre concrete roofing tiles**

Requirements for fibre concrete roofing tiles. Also specifies the quality of raw materials, dimensional requirements and performance characteristics of the finished tiles.

ICS: 91.100.30

Price code: 12

Pages: 24

**BOS 36: 2009 2<sup>nd</sup> ed. Windows, casement doors and sidelights steel frames – Specification**

This Botswana Standard covers windows, casement doors and sidelights, and fanlights fabricated from hot rolled mild steel sections, complete with fittings and ancillary components.

ICS: 91.060.50

Price code: 18

Pages: 48





**BOS 50-1: 2014 3<sup>rd</sup> ed. Hotels and related establishments – Grading requirements – Part 1: Fully serviced hotels - Specification**

This Botswana Standard defines the grading requirements that will be used to assess fully serviced hotels in Botswana.

ICS: 03.080.30

Price Code: 14

Pages: 32

**BOS 50-2: 2014 3<sup>rd</sup> ed. Hotels and related establishments – Grading requirements – Part 2: Selected serviced hotels - Specification**

This Botswana Standard defines the grading requirements that will be used to assess selected service hotels in Botswana

ICS: 03.080.30

Price Code: 13

Pages: 28

**BOS 50-3: 2014 3<sup>rd</sup> ed. Hotels and related establishments – Grading requirements – Part 3: Game lodges and tented camps - Specification**

This Botswana Standard defines the grading requirements that will be used to assess game lodges and tented camps in Botswana

ICS: 03.080.30

Price Code: 16

Pages: 36

**BOS 50-4: 2014 3<sup>rd</sup> ed. Hotels and related establishments – Grading requirements – Part 4: Bed and Breakfast - Specification**

This Botswana Standard defines the grading requirements that will be used to assess bed and breakfast establishments in Botswana

ICS: 03.080.30

Price Code: 14

Pages: 32

**BOS 50-5: 2014 3<sup>rd</sup> ed. Hotels and related establishments – Grading requirements – Part 5: Guesthouses - Specification**

This Botswana Standard defines the grading requirements that will be used to assess guesthouses in Botswana

ICS: 03.080.30

Price Code: 14

Pages: 32

**BOS 50-6: 2014 3<sup>rd</sup> ed. Hotels and related establishments – Grading requirements – Part 6: Self-catering establishments.**

This Botswana Standard defines the grading requirements that will be used to assess self-catering establishments in Botswana

ICS: 03.080.30

Price Code: 16

Pages: 36

**BOS 50-7:2016 Hotels and related establishments – Grading requirements – Part 7: Remote camping grounds – Specification**

Defines grading requirements for assessing remote camping grounds.

ICS: 03.200; 97.200.30

Price code: 10

Pages: 20

**BOS 50-8:2016 Hotels and related establishments – Grading requirements – Part 7: Urban camping grounds – Specification**

Defines grading requirements for assessing urban camping grounds.

ICS: 03.200; 97.200.30

Price code: 10

Pages: 20

**BOS 50-9:2016 Hotels and related establishments – Grading requirements – Part 9: Wilderness camping grounds – Specification**

Defines grading requirements for assessing wilderness camping grounds.

ICS: 03.200; 97.200.30

Price code: 4

Pages: 8



**BOS 65-2: 2003 see page 109**

**BOS 65-2:2015 2<sup>nd</sup> ed. The production of reconditioned fire-fighting equipment Part 2: Fire hose reels and above-ground hydrants**

Specifies the procedures that apply to the effective reconditioning of fire hose reels and above-ground fire hydrants. It does not cover the replacement or installation of the hose reels and above-ground hydrants.

ICS: 13.220.20

Price code: 6

Pages: 12

**BOS 66:2014 Globally harmonized system of classification and labelling of chemicals (GHS)**

This standard covers the harmonized criteria for the classification of hazardous substances and mixtures, including waste, for their safe transport, use at the workplace or in the home according to their health, environmental and physical hazards. It gives the harmonized communication elements for labelling and safety data sheets.

ICS: 13.300

Price code: 25

Pages: 286

**BOS 67: 2003 Administration standard for commercial telecommunications infrastructure**

Specifies administration for a generic telecommunications cabling system that will support a multi-product, multi-vendor environment.

ICS: 33.030

Price code: 21

Pages: 62

**BOS 68-1: 2005 Solar photovoltaic energy system components – Part 1: Integrated charge controller-inverter**

Requirements for integrated charge controller-inverter which shall be fitted on battery-based photovoltaic electric systems installations whose total installed power does not exceed 10 000 peak watt.

ICS: 27.160

Price code: 8

Pages: 18

**BOS 68-2: 2005 Solar photovoltaic energy system components – Part 2: Charge controller**

Requirements for charge controllers which shall be fitted on battery-based photovoltaic electric systems installations whose total installed power does not exceed 10 000 peak watt.

ICS: 27.160

Price code: 6

Pages: 12

**BOS 69: 2003 Pre-stressed concrete lintels – Specification.**

Covers precast prestressed concrete lintels for use in composite action with masonry work.

ICS: 91.100.40

Price code: 8

Pages: 16

**BOS 70: 2004 Telecommunications - Commercial grounding (earthing) and bonding - requirements.**

Requirements for a uniform telecommunications grounding and bonding infrastructure that shall be followed within commercial buildings where telecommunications equipment will be installed.

ICS: 33.020

Price code: 14

Pages: 32

**BOS 71:2004 Solar water heating systems – Collectors – Specification**

This Botswana standard specifies the requirements of solar collectors that shall be used on solar heating systems for hot water.

ICS: 27.160

Price code: 8

Pages: 16

**BOS 72: 2003 see page 109**

**BOS 73: 2011 2<sup>nd</sup> ed. Concrete non-pressure pipes – Specification**

This Botswana Standard specifies requirements for two types of concrete non-pressure cylindrical pipes, one (SC) intended mainly for storm water-drain and culvert purposes and the other (SI) intended mainly for sewer and irrigation purposes.

ICS: 23.040.50

Price code: 12

Pages: 24

**BOS 74: 2011 2<sup>nd</sup> ed. Precast reinforced concrete culverts -Specification**

This Botswana Standard specifies requirements for precast reinforced concrete culverts of different strength classes, according to the span of culvert intended primarily for conveying water that is not under pressure.

ICS: 91.100.30

Price code: 12

Pages: 24

**BOS 75: 2011 2<sup>nd</sup> ed. Reinforced concrete pressure pipes - Specification**

This Botswana Standard specifies requirements for reinforced concrete cylindrical pipes (other than prestressed pipes) for use under pressure.

ICS: 23.040.50

Price code: 12

Pages: 24

**BOS 76: 2007 2<sup>nd</sup> ed. Precast concrete manhole sections and components - Specification**

This Botswana Standard covers precast concrete sections, slabs, bases, lids and frames intended for use in the construction of manholes (including inspection chambers) in storm water, drainage and sewage pipelines.

ICS: 91.100.30

Price code: 17

Pages: 44

**BOS 78: 2004 Unplasticized polyvinyl chloride (PVC-U) soil, waste and vent pipes and Pipe fittings - Specification.**

Covers fittings manufactured predominantly by the injection-moulding process, but does not cover fittings produced by fabrication only.

ICS: 23.040.20

Price code: 16

Pages: 40

**BOS 80: 2004 Unplasticized polyvinyl chloride (PVC-U) sewer and drain pipes and pipe fittings – Specification.**

Covers two duties (normal and heavy) of unplasticized polyvinyl chloride (PVC-U) pipes of nominal sizes 110 mm – 630 mm and one duty of PVC-U pipe fittings of nominal sizes 110 mm and 160 mm, intended for underground non-pressure applications in the construction of sewers and drains where temperatures continuously in excess of 60°C are not encountered.

ICS: 23.040.20

Price code: 17

Pages: 42

**BOS 82: 2004 Polypropylene pressure pipes - Specification.**

Covers plain, unthreaded and threaded polypropylene homopolymer (type PP-H), copolymer (type PP-B) and random polymer (PP-R) and pressure pipes and integral and threaded fittings fitted by the manufacturer, intended for above and below ground applications for the conveyance of fluids under pressure.

ICS: 13.060.50

Price code: 12

Pages: 24

**BOS 83: 2004 Flexible polyvinyl chloride garden hose - Specification.**

Requirements for the following two types of flexible polyvinyl chloride garden hose for use with cold water.

ICS: 13.060.50

Price code: 8

Pages: 16

**BOS 84: 2003** **Aggregates from natural sources – Fine aggregates for plaster and mortar – Specification**

The standard specifies requirements for fine aggregate from natural sources, for use in mortar and plaster.

ICS: 91.100.15

Price code: 8

Pages: 16

**BOS 90: 2014** **Citrus fruit – Grading requirements**

This standard is applicable to citrus fruit of varieties grown from lemon (*Citrus limon*), Mexican lime (*Citrus aurantifolia*), Persian lime (*Citrus latifolia*), mandarin or tangerine (*Citrus reticulata*), sweet orange (*Citrus sinensis*), pummelo or Shaddock (*Citrus grandis*), grapefruit (*Citrus paradisi*) and any hybrid thereof to be supplied fresh to the consumer, citrus fruit for industrial processing being excluded.

ICS 67.120.10

Price code: 8

Pages: 16

**BOS 92: 2004 see page 109**

**BOS 93: 2012 2<sup>nd</sup> ed.** **Waste water – Physical, microbiological and chemical requirements - Specification**

This Botswana Standard specifies requirements for physical, microbiological and chemical limits for waste water discharged into sewer, a watercourse and open environment.

ICS: 13.060.45

Price code: 8

Pages: 16

**BOS 94: 2004** **Glass-fibre-reinforced thermosetting plastics (GRP) pipes for water supply, sewerage and drainage – Specification**

This standard applies to GRP pipes of nominal sizes 25 mm to 3 600 mm (inclusive), nominal pressure (PN) classes 2.5, 6, 8, 10, 12.5, 16, 20, 25, 32 and 40, and nominal stiffness (SN) classes 630, 1 250, 2 500 and 5 000, suitable for use in water systems, service and distribution piping systems, and transmission piping systems above or underground.

ICS: 13.060.50

Price code: 14

Pages: 32

**BOS 94-2: 2008** **Glass fibre-reinforced thermosetting plastics (GRP) pipes Part 2: Pipes, fittings, and joint assemblies for the conveyance of hazardous chemical substances in industrial applications - Specification**

This Botswana standard specifies requirements for pipes, fittings, and joint assemblies manufactured from glass fibre-reinforced thermosetting resins for the conveyance of liquid or gas hazardous chemical substances in industrial applications, that are designed for general operation under conditions of internal pressure or vacuum product of maximum allowance pressure (PS), in bar, and nominal diameter (DN), in millimetres, does not exceed the value of 6 000 for liquids and gases, and that can be lined or unlined.

ICS: 23.040.20

Price code: 22

Pages: 66

**BOS 94-3: 2008** **Glass fibre-reinforced thermosetting plastics (GRP) pipes Part 3: Pipes, fittings, and ancillaries for underground (buried) fire protection services - Specification**

This Botswana standard covers the design, manufacture, certification, transportation, installation and inspection of GRP pipes, fittings and ancillaries for use as underground (buried) fire protection services.

ICS: 23.040.20

Price code: 16

Pages: 36

**BOS 95-1: 2005** **Sawn softwood timber Part 1: General requirements**

This part of BOS 95 specifies requirements for visually, mechanically and proof graded sawn softwood timber, for use as structural timber, branding and battens, for frame wall construction and for industrial purposes, driven from coniferous trees of the genus Pinus.

ICS: 91.080.20

Price code: 13

Pages: 28



**BOS 104: 2012 2<sup>nd</sup> ed. Prefabricated concrete components for fences  
Specification**

This Botswana Standard specifies requirements for prefabricated concrete components of the following types, for use in concrete fences:

- a) posts;
- b) plain panels;
- c) decorative panels.

ICS: 91.090; 91.100.30

Price code: 10

Pages: 20

**BOS 105: 2004 Concrete flooring tiles – Specification**

This standard covers natural coloured, single coloured and terrazzo concrete flooring tiles.

ICS 91.100.30

Price code: 6

Pages: 12

**BOS 106: 2004 Fruit juices and fruit drinks**

Prescribes the requirements for fruit juices and fruit drinks

ICS: 67.160.20

Price code: 6

Pages: 11

**BOS 107-1: 2005 Road signs – Part 1: Retro-reflective sheeting material – Specification**

This part of BOS 107 specifies requirements for retro-reflective sheeting material and non-retro-reflective black sheeting for use on road signs on public roads

ICS: 93.080.30

Price code: 10

Pages: 20

**BOS 107-2: 2005 Road signs – Part 2: Performance for road signs – Specification**

This part of BOS 107 covers the performance requirements of retro-reflective and non-retro-reflective road signs for use as regulatory, warning, information and guidance signs on public roads. This standard shall be used in conjunction with; the Botswana traffic Signs manual and the Road Traffic legislation. This standard does not cover portable temporary road signs,

ICS: 93.080.30

Price code: 10

Pages: 20

**BOS 108: 2005 Rotational moulded polyethylene water storage tanks - Specification**

This standard covers the requirements of materials, dimensions construction, shape, workmanship, performance requirements and inspection and testing of rotational moulded polyethylene water storage with a nominal service temperature from 1°C to 50°C. These tanks are not meant for underground applications.

ICS: 23.020.01

Price code: 10

Pages: 20

**BOS 110: 2005 The design and installation of ceramic tiling – Code of practice**

Deals with all work involved in the internal and external laying of ceramic wall, floor tiles and mosaics.

ICS: 91.100.25

Price code: 22

Pages: 72

**BOS 114: 2005 Cereals – Maize grains for human consumption – Specification**

This Botswana Standard applies to maize grains as defined for direct human consumption that is ready for its intended use as a human food, presented in packaged form or sold loose from the package directly to the consumer. This standard specifies requirements for whole grain shelled dent maize, *Zea mays indentata L.*, and/ or shelled flint maize, *Zea mays indurata L.*, or their hybrids. It does not apply to processed maize and other products derived from maize grains.

ICS: 67.060

Price code: 8

Pages: 16



**BOS 115:2015 Bakery products — Loaf of bread — Specification**  
Specifies the requirements and quality test methods for white bread, brown bread, wholemeal bread and enriched bread, referred to as loaves of bread.

ICS: 67.060

Price Code: 8

Pages: 16

**BOS 116: 2011 2<sup>nd</sup> ed. See page 109**

**BOS 117: 2011 2<sup>nd</sup> ed. See page 109**

**BOS 118: 2005 see page 109**

**BOS 119: 2005 White chalks — Specification**

This specification covers soft, hard and soft dust-free white chalks.

ICS: 97.180

Price code: 6

Pages: 12

**BOS 120: 2005 Coloured chalks – Specification**

Specifies requirements for coloured chalks (soft and dust-free) and pastels, intended for use in schools.

ICS: 97.180

Price code: 12

Pages: 24

**BOS 121: 2005 The measurement of noise emitted by road vehicles when stationary – Code of practice**

Covers the measurement, at a readily available site, of noise produced by road vehicles when stationary, as a check on vehicles in service.

ICS: 17.140.30; 43.020

Price code: 6

Pages: 12

**BOS 122: 2005 Engine speed (S values), reference sound levels and permissible sound levels of stationary vehicles – Code of practice**

The Botswana Standard is intended to be used in conjunction with BOS 121, and contains the following information regarding a road vehicle: the reference sound level (see 3.2), if supplied by the motor vehicle manufacturer; the stationary sound level limit (see 3.3); and the S value see 3.4).

ICS: 17.140.30; 43.020

Price code: 12

Pages: 24

**BOS 123: 2005 Water quality – Determination of manganese by persulphate method.**

Covers the determination of manganese in water and wastewater.

ICS: 13.060.50

Price code: 4

Pages: 8

**BOS 124: 2005 Water quality – Determination of manganese by atomic absorption spectrometry.**

Specifies a method of determining the manganese content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption.

ICS: 13.060.50

Price code: 4

Pages: 8

**BOS 125: 2005 Water quality - Determination of dissolved solids**

Specifies a method of measuring the concentration of dissolved solids in water and in wastewater by gravimetric determination of the dry residue of the sample after filtration through a membrane filter, size 0.45 µm.

ICS: 13.060.60

Price code: 4

Pages: 8



water or bottled carbonated (sparkling) water. This standard excludes water that contains sugar, sweeteners, flavourants or other additives.

ICS: 13.060.20

Price code: 10

Pages: 20

**BOS 144:2011 Floor and furniture polish – Wax emulsion polish – Specification**

This standard specifies requirements for wax emulsion paste polish and two types of wax emulsion liquid polish suitable for use on furniture and floors. Wax polish containing organic solvent (s) shall not be used on thermoplastic (asphalt), semi-flexible vinyl (vinyl-asbestos), flexible vinyl, linoleum and rubber surfaces.

ICS: 75.140

Price code: 8

Pages: 16

**BOS 145: 2005 Wax polish solvent-based for floors and furniture-Specification**

This standard covers two forms, i.e. liquid and paste, of solvent-based wax polish suitable for use on furniture and floors, other than those of thermoplastic (asphalt), semi-flexible vinyl (vinyl-asbestos), flexible vinyl, linoleum and rubber.

ICS: 75.140

Price code: 8

Pages: 16

**BOS 146: 2005 Scouring compounds – Soap base (metric units) – Specification**

This Botswana Standard covers two types of scouring compounds, powder and paste (see 4.1) for the removal of tenacious soil from hard surfaces.

ICS 75.140

Price code: 6

Pages: 12

**BOS 147: 2009 Scouring powder: Synthetic detergent base - Specification**

This Botswana Standards covers scouring powder used for the removal of tenacious soil from hard surfaces.

ICS: 71.100.40

Price code: 8

Pages: 16

**BOS 148: 2005 Steel bars for concrete reinforcement – Specification**

This specification covers the physical and mechanical requirements for carbon steel bars intended for use as reinforcement for concrete. It does not cover any surface treatment of the steel bars. The users attention is drawn to the following standards; BOS 150, SANS 1200G, BOS 214-1, BOS 214-2 and SANS 10144.

ICS: 77.140.15; 77.140.60; 91.080.40

Price code: 12

Pages: 24

**BOS 149: 2005 Welded steel fabric for reinforcement of concrete**

The characteristics of steel fabric of hard-drawn steel wire, consisting of longitudinal and cross wires welded together, and intended for use as a form of reinforcement for concrete.

ICS: 77.140.15; 77.140.50; 91.080.40

Price code: 8

Pages: 16

**BOS 150: 2005 Bending dimensions and scheduling of steel reinforcement for concrete.**

Bending dimensions, the methods of measuring bending dimensions and the scheduling of steel bars that are used for the reinforcement of concrete.

ICS: 77.140.15; 77.140.60; 91.100.30

Price code: 12

Pages: 24

**BOS 151:2005 Industrial solar heating systems for hot water – On site test method – thermal performance**

Specifies an on-site test method for the indication of thermal performance of installed industrial solar water heating systems.

ICS: 27.160

Price code: 8

Pages: 16



**BOS 161-3: 2005 Safety and security glazing materials for buildings – Part 3: Bullet-resistant glazing materials – Specification**

This Botswana Standard covers requirements for the performance of bullet-resistant glazing materials intended for use in areas of buildings that may be subjected to attack with firearms. This standard does not cover requirements for the retention of bullet resistant or shot resistant properties for a stated period of time.

ICS: 81.040.20

Price code: 8

Pages: 16

**BOS 162: 2005 PVC-U window and door frames for external use - Windows with frames made from PVC-U profiles – Specification**

This Botswana standards specifies requirements for the material, construction, types, dimensions, properties and performance of windows with frames made from extruded unplasticized polyvinyl chloride (PVC-U) profiles which meet the requirements of BOS 127. The scope of this standard extends to such windows within a curtain-walling system, with the exception of curtain walls that span across horizontal structural members or floors. Windows with PVC-U frames in which any frame member is longer than 3m are also excluded.

ICS: 91.060.50

Price code: 18

Pages: 48

**BOS 163-1: 2008 Civil engineering construction – Part 1: General – Specification**

This Botswana Standard covers the principles, responsibilities and requirements generally applicable to all civil engineering construction and building works.

ICS: 93.010

Price code: 12 Pages: 24

**BOS 163-2: 2008 Civil engineering construction – Part 2: General (small works) – Specification**

This Botswana Standard covers the principles, responsibilities and requirements generally applicable to all civil engineering construction and building work on small projects such as piling, drilling and sports field contracts, and on buildings, bridges and similar isolated structures and on other minor works.

ICS: 93.020

Price code: 10

Pages: 20

**BOS 163-3: 2009 Civil engineering construction – Part 3: Engineer's office - Specification**

This Botswana Standard specifies the requirements for offices and the minimum associated facilities for the use of the engineer on site. It covers the scheduled number of identical offices and allows for mobile and semi-mobile accommodation.

ICS: 93.020

Price code: 6

Pages: 12

**BOS 163-5: 2010 Civil engineering construction – Part 5: General (structural)**

This Botswana Standard covers the principles, general responsibilities and requirements applicable to the construction or fabrication and erection of a structure or group of structures in concrete (cast-in-situ, precast or prestressed), steel, aluminium or structural timber.

Note: Terminology used throughout the standardized specifications is explained because, in terms of the conditions of contract, the employer, the contractor and the engineer have certain rights and obligations that can be exercised most equitably when all parties have a clear understanding of the operations that are covered by each item in the schedule of quantities. As this specification is applicable only to construction, on a prepared site or foundation, of a structure or group structures that fall within a single work classification (See Annex A to SANS 10120-1). Only one item is scheduled to cover that cost of the contractor's obligations of a preliminary and general nature.

ICS: 93.010

Price code: 8

Pages: 16

**BOS 163-11: 2006**                      **Civil engineering construction – Part 11: Gabions and pitching – Code of practice**

This code of practice covers the construction of gabions and stone pitching for the protection of earthworks against erosion. It covers gabion walls and aprons used as retaining walls, channel linings, and the like and covers light to heavy pitching, with and without mortar.

ICS: 93.020

Price code: 10

Pages: 20

**BOS 163-12: 2007**                      **Civil engineering construction- Part 12: Earthworks (Roads, subgrade) – Specification**

This Botswana Standard covers;

- a) The construction, up to and including the selected layer, of the subgrade in new roads,
- b) The reconstruction of existing roads, and
- c) Except where BOS 163-33 forms part of the contract document, the construction of gravel road surfaces in urban and industrial areas.

ICS: 93.020

Price code: 12

Pages: 24

**BOS 163-26: 2008**                      **Civil engineering construction- Part 26: Bedding (Pipes) – Specification**

This Botswana Standard covers the bedding (bedding cradle and selected fill blanket) for buried pipes carrying fluids under pressure or gravity.

ICS: 93.020

Price code: 10

Pages: 20

**BOS 163-28: 2008**                      **Civil engineering construction- Part 28: Sewers – Specification**

This Botswana Standard covers the general construction requirements for sewerage systems including connecting sewers, manholes, and the like, but excluding sewer rising mains, pump stations, treatment works, and ancillary works.

ICS: 93.020

Price code: 13

Pages: 28

**BOS 163-32: 2007**                      **Civil engineering construction- Part 32: Roads (General) - Specification**

This Botswana standard covers definitions and testing applicable to the construction of the controlled layers and surfacing of urban and industrial roads. It covers construction of cuts within the road prism and intersections, removal to spoil of unsuitable or excess material, compaction of the road bed, construction and compaction of fills and the selected layer using material from cuts in the road prism or from approved borrow pits, and finishing of cuts and fills, up to the stage where the sub-grade is ready for the placing of the sub-base or base (or both) and the shoulders.

ICS: 93.020

Price code: 17

Pages: 44

**BOS 163-35: 2007**                      **Civil engineering construction – Part 35: Base (light pavement structures) – Specification**

This Botswana Standard covers the requirements for base for light pavement structures, shoulders, footways and paved areas of category C and D in accordance with TRH 4 and category UC and UD in accordance with UTG 3. It covers the procuring, furnishing, classification, placing, compaction and finishing of approved natural gravel, stabilized gravel or crushed stone and water bound macadam.

ICS: 93.020

Price code: 10

Pages: 20

**BOS 163-37: 2008**                      **Standardized specification for civil engineering construction Part 37: Asphalt base and surfacing – Specification**

This Botswana Standard covers the priming of the sub-base and the construction of two types of hot-mix asphalt base and surfacing namely:

- a) Continuously graded asphalt; and
- b) Gap-graded and open-graded asphalt which, in the case of surfacing, includes rolled-in pre-coated chips or a friction course of open graded asphalt.

ICS: 93.020

Price code: 14

Pages: 32

**BOS 163-38: 2007**                      **Civil engineering construction – Part 38: Segmented paving – Specification**

This Botswana Standard covers the paving of roads and other areas with precast concrete segmental blocks laid closely together, the joints between the units being filled with jointing sand.

ICS: 93.020

Price code: 8

Pages: 16

**BOS 163-40: 2008**                      **Civil engineering construction – Part 40: Ancillary road works – Specification**

This Botswana Standard covers:

- a) The supply and installation of metal W – section guardrails for rails
- b) The supply and erection of permanent road signs alongside and cover carriageways, ramps, and cross roads
- c) The permanent marking of road surfaces with white or yellow painted lines and symbols and the supply and fixing of retro – reflective road studs.

ICS: 93.080.01

Price code: 14

Pages: 32

**BOS 164: 2006**                      **Lime for soil stabilization**

Covers quick limes and slaked (hydrated) limes of three types, namely calcium, magnesium and dolomitic, for use in soil stabilization and produced by: calcining of limestone, treatment of calcium carbide.

ICS: 91.100.10

Price code: 8

Pages: 16

**BOS 165: 2006**                      **Aggregates from natural resources – Aggregates for concrete**

This standard specifies the requirements for fine and coarse aggregates from natural sources for use in concrete.

ICS: 91.100.30

Price code: 8

Pages: 16

**BOS 166: 2006**                      **Precast concrete paving slabs – Specification**

This Botswana Standard specifies requirements for precast concrete paving slabs for use as a wearing surface for pavements, footpaths, etc, but not for roads.

ICS: 91.060.30

Price code: 12

Pages: 24

**BOS 170-1: 2006**                      **Suspended ceilings – Part 1: Code of practice for design**

This standard gives recommendations for the design of suspended ceilings of dry construction with suspension systems of lightweight steel or aluminium alloy sections.

ICS: 91.060.30

Price code: 13

Pages: 28

**BOS 170-2: 2006**                      **Suspended ceilings – Part 2: Performance of components and assemblies**

This part of BOS 170 specifies materials and tolerances as well as requirements for performance of components and complete assemblies of dry construction suspended ceilings, with suspension systems of lightweight steel or aluminium alloy sections and infill units of the types described in clause 6.

ICS: 91.060.30

Price code: 12

Pages: 24

**BOS 170-3: 2006**                      **Suspended ceilings – Part 3: Installation and maintenance – Code of Practice**

This standard gives recommendations for the installation, earth continuity testing and maintenance of suspended ceilings complying with BOS 170-2.

ICS: 76.080

Price code: 8

Pages: 16

**BOS 171: 2006 Adhesives for tiles – Specification**

This Botswana standard is applicable to ceramic tile adhesives for internal and external tile installations on walls and floors. It gives the terminology concerning the products, working methods, application properties for ceramic tile adhesives. It also specifies the values of performance requirements for the adhesives (cementitious, dispersion and reaction resin adhesives.)

ICS: 01.040.83; 01.040.91; 83.180; 91.100.10

Price code: 10

Pages: 20

**BOS 172: 2006 Gypsum plasterboard - Specification**

This standard specifies the requirements for gypsum plasterboard that is intended to be used as vertical or horizontal linings in buildings, but does not include plaster board that has been subjected to secondary manufacturing operations. The standard includes boards manufactured to receive either direct surface decoration or gypsum plaster finishes.

ICS: 91.100.10

Price code: 12

Pages: 24

**BOS 173: 2006 Preservative treated timber – Specification**

This standard specifies treatment requirements (other than the method of treatment) for preservative-treated timber and timber products (other than for composite board products that fall within the scopes of BOS 204-1, BOS 204-2, SANs 753 and BOS 176) that have a predicted service life at various levels of preservative treatment which are considered to be acceptable for a range of hazard conditions.

This standard is not applicable to treatment with fire retardants or to treatments aimed at improving the physical properties of timber and timber products, nor does it cover the inherent quality of timber or timber products, or properties other than in respect of preservative treatment.

Note 1: Except under the certification mark scheme, assessment of compliance with the requirements of 4.1, 4.3, 4.4 (in the cases of class C and class W preservatives), 4.6 (except where quantitative analysis has been agreed upon) and 4.7, requires special agreement between the supplier and the purchaser.

Note 2: Where class W preservatives have been used, previous grading of timber in respect of moisture content, splits, checks, warp, dimensions and finish may be invalidated.

Note 3: This standard should be read in conjunction with BOS 174.

ICS: 71.100.50

Price code: 13

Pages: 28

**BOS 174: 2006 The preservative treatment of timber – Specification**

This standard covers the classification of timber preservatives, hazard conditions for timber, the solvents used for timber preservatives, the preparation of timber for treatment, the various timber processes and the use of preservative treated timber in Southern Africa. Recommendations relating to the handling and safety of preservative treated timber are also given. This specification does not cover treatment with fire retardants.

ICS: 79.040

Price code: 13 Pages: 28

**BOS 176: 2006 Eucalyptus poles, cross-arms and spacers for power distribution and telephone systems -Specification**

This standard specifies requirements for eucalyptus poles, grown in Southern Africa, that are treated with creosote, a mixture of creosote and waxy oil, or a mixture of copper-chromium-arsenic compounds (CCA), and that are intended to be used as upright supports for telephone systems, and as upright supports, cross-arms and spacers (in five-pole structures) for power distribution lines.

ICS: 79.040

Price code: 16

Pages: 36



**BOS 177: 2006 Glass-fibre reinforced plastics sectional tanks for cold water storage – Specification**

This Botswana Standard specifies requirements for rectangular glass-reinforced plastics (GRP) sectional tanks constructed from square or rectangular panels, for storage of cold water above ground for both domestic and industrial use. The water is in contact with the GRP tank surface.

ICS: 23.020.10

Price code: 14

Pages: 32

**BOS 186: 2006 see page 109**

**BOS 187: 2006 Motor vehicle safety – Rear under-run protection devices – Specification**

This standard covers requirements for rear under-run protection devices and their installation on category M, N and O vehicles having a gross vehicle mass (GVM) exceeding 3 500 kg and intended for use on public roads, except for the vehicles listed in 1.2.

ICS: 43.040.60

Price code: 6 Pages: 12

**BOS 190: 2006 Animal feeding stuffs- Pig feeds – Specification**

The standard specifies requirements for the following types of feeds:

- a) pig creep meal
- b) pig weaner meal
- c) pig grower meal
- d) pig finisher meal
- e) lactation meal, and
- f) dry sow and boar meal

ICS: 65.120

Price code: 10

Pages: 20

**BOS 191: 2006 Scholastic stationery – Specification**

This standard covers several types of books and sheets of paper intended for scholastic and related uses. It specifies the covers, bindings, grades of paper and the types of ruling.

ICS: 85.080

Price code: 16

Pages: 40

**BOS 192: 2006 Chalk writing boards for schools – Specification**

This specification covers chalk writing boards made from metal, hardboard, composite board, plywood or high-pressure laminated board or a combination of these. It covers two classes of writing surface and four types of construction as well as boards with ruled writing surfaces and with chalk rails.

ICS: 85.080

Price code: 12

Pages: 24

**BOS 193: 2006 Wood cased pencils and extruded plastic pencils, with graphite lead and coloured lead – Specification**

This standard specifies the characteristics of;

- a) wood cased graphite lead pencils (of 14 hardness degrees) and of wood cased coloured lead pencils for general writing, drafting and drawing purposes
- b) wood cased graphite lead and coloured lead pencils intended for young children, and
- c) extruded plastics graphite lead pencils and extruded plastics coloured lead pencils for general writing, drafting and drawing purposes

ICS: 97.180

Price code: 13 Pages: 28

**BOS 196: 2006 see page 109**

**BOS 198: 2008 Cheese – General specification**

This Botswana Standard specifies the requirements for all cheese types ripened or unripened (soft, semi-hard, hard and extra-hard) derived from cow's milk.

**Note:** Subject to the provisions of this specification, standards for individual varieties of cheese may contain provisions which are more specific than those in this specification and in these cases, those specific provisions apply.

ICS: 67.100.30

Price code: 8

Pages: 16

**BOS 199: 2014 Honey – Specification**

This Botswana Standard specifies requirements for comb, chunk and liquid honey. Honey is a natural product produced by bees with a wide range of colour, appearance, taste, viscosity, aroma and flavour.

ICS: 67.180.10

Price code: 10

Pages: 20

**BOS 200:2016 Fresh chicken table eggs (unfertilized) – Specification**

Specifies requirements for fresh eggs for sale which are produced by domesticated chicken (*Gallus domesticus*).

ICS: 67.120.20

Price code: 10

Pages: 20

**BOS 201: 2006 see page 109**

**BOS 202-1: 2006 Gaming equipment - Part 1: Casino equipment – Specification**

This part of BOS 202 specifies the constructional and operational requirements for gaming and related equipment that resides on, or is operated on (or both) the gaming floor of the casino.

ICS: 35.240.99

Price code:20

Pages: 60

**BOS 202-2: 2006 Gaming equipment - Part 2: Monitoring and control systems for gaming equipment**

This part of BOS 202 specifies the general hardware and software requirements and the list of significant events required for a monitoring and control system (MCS) for use in a casino

ICS: 35.240.99

Price code: 14

Pages: 32

**BOS 202-3: 2006 Gaming equipment - Part 3: Wagering record keeping systems**

This part of BOS 202 specifies the general hardware and software requirements and the list of significant events required by the Botswana Licensing Authority (LA), for record keeping systems for the acceptance by the licensed operators of wagers on events permitted by the LA.

ICS: 35.240.99

Price code: 16

Pages: 36

**BOS 202-4: 2006 Gaming equipment - Part 4: Local area and wide area jackpot and progressive jackpot equipment**

This standard sets out the requirements for gaming equipment that is added to existing gaming equipment to provide an addition layer of prizes referred to as jackpots. These jackpots may consist of a single fixed-value prize or may increment from a nominated base amount according to the amounts played on a single machine or, more usually a group of linked machines (Progressive Jackpot).

ICS: 35.240.99

Price code: 10

Pages: 20

**BOS 202-5: 2006 Gaming equipment - Part 5: Tokens**

This standard specifies constructional and design requirements for tokens (used as betting and wagering media in gaming equipment), to be used on licensed premises, as specified by the licensing authority

ICS: 35.240.99

Price code: 4

Pages: 8

**BOS 204-1: 2006 Wooden poles, droppers, guard rails posts Part 1: Hardwood species**

This Botswana standard specifies requirements for preservative-treated hardwood structural poles, agricultural poles, fencing poles, round droppers, guardrail posts and spacer blocks. The poles are



ICS: 59.080.20

Price code: 8

Pages: 16

**BOS 211: 2006 Printed labels for textiles – Specification**

This Botswana Standard covers printed fabric labels suitable for informative labelling of textile articles and garments.

ICS: 61.020

Price code: 6

Pages: 12

**BOS 213: 2006 Cereals – Milled maize products – Specification**

This standard applies to milled maize products for direct human consumption prepared from kernels of common maize, *Zea mays* L., as described in BOS 114.

ICS: 67.060

Price Code: 6

Pages: 12

**BOS 214-1: 2006 The structural use of concrete – Part 1: Design – Code of Practice**

This standard establishes principles for the structural use of concrete under the following stipulations:

- a) **method of design:** limit states classified as ultimate limit state and serviceability limit states;
- b) **material:** ordinary concrete of normal and low density, used in reinforced, pre-stressed and precast structures of elements and in plain concrete walls;
- c) **types of structures:** buildings and structures in which all load bearing elements (e.g. slabs, columns, walls etc.) are of concrete

ICS 91.100.30

Price code: 25

Pages: 196

**BOS 214-2: 2006 The structural use of concrete Part 2: Materials and execution of work – Code of practice**

This part of BOS 214 covers the materials and execution of work related to the structural use of concrete in buildings and structures where the design of reinforced, pre-stressed and precast concrete is entrusted to appropriately qualified structural or civil engineers and the execution of the work is carried out under the direction of approximately qualified supervisors. This part of BOS 214 does not cover the structural use of concrete made with high-alumina cement.

ICS 91.100.30

Price code: 22

Pages: 76

**BOS 225: 2006 Poultry feeds – Broiler breeder feeds - Specification**

This Botswana Standard specifies the basic requirements for broiler breeder feeds

ICS 65.120

Price code: 4

Pages: 8

**BOS 227: 2006 Gel detergent cleaner (non-abrasive) – Specification**

This Botswana Standard specifies the requirements for a gel detergent cleaner, without abrasive properties, not intended for normal dishwashing, but suitable for the cleaning of stainless steel, aluminium, corrosion resistant metal, ceramic tiles, glass, polyvinyl chloride and painted surfaces. This product is not suitable for the cleaning of floors that have a coating of polish. This Botswana Standard covers packing and marking which compliments BOS 66-1 which deals with classification, packaging and labelling of chemicals.

ICS: 71.100.40

Price code: 6 Pages: 12

**BOS 228: 2006 Liquid furniture polish (non-wax emulsion type) –Specification**

This Botswana Standard covers a non-wax emulsion type liquid furniture polish suitable for general application to untreated wooden furniture. The standard covers packing and marking which compliments BOS 66-1, classification, packing and labelling of chemicals.

ICS: 71.100.40

Price code: 6

Pages: 12

**BOS 229: 2006 Polish stripper – Specification**

This Botswana Standard covers an ammoniated and a non-ammoniated type of polish stripper that are both suitable for use in the removal of polymer coatings and wax coatings from all types of floor other than unsealed wood and cork floors.

ICS: 71.100.40

Price code: 8

Pages: 16

**BOS 229: 2016 2<sup>ND</sup> Ed Polish stripper – Specification**

This Botswana Standard covers an ammoniated and a non-ammoniated type of polish stripper that are both suitable for use in the removal of polymer coatings and wax coatings from all types of floor other than unsealed wood and cork floors.

**BOS 231: 2006 Health, safety and environmental guidelines for the construction and operation of timber treatment plants – Code of practice**

This Botswana Standard serves as a practical guide on occupational health and safety and environmental aspects in and around timber treatment plants with the intention to reduce health and safety and environmental risks. It is applicable to any treatment process (as described in BOS 174 in which waterborne preservatives, flame-retardants, anti-sap stain chemicals, organic solvent-based preservatives or oil-borne preservatives are used.

ICS: 13,100; 79.020

Price code: 17

Pages: 44

**BOS 233-1: 2007 School clothing – Part 1: General requirements – Specification**

This Botswana Standard specifies the general requirements for materials, workmanship, packing, care-labelling, marking and inspection of school clothing.

ICS 61.020

Price code: 8

Pages: 16

**BOS 233-2: 2007 School clothing – Part 2: Blazers – Specification**

This Botswana Standard covers the requirements for the materials, sizes and make of school blazers for boys and girls.

ICS 61.020

Price code: 6

Pages: 12

**BOS 233-3: 2007 School clothing – Part 3: Trousers and shorts – Specification**

This Botswana Standard specifies the materials, cut, make and trim of boys' trousers and shorts.

ICS 61.020

Price code: 6

Pages: 12

**BOS 233-4: 2007 School clothing – Part 4: Shirts – Specification**

This standard specifies the materials, cut, make and trim of shirts for boys and girls.

ICS 61.020

Price code: 6

Pages: 12

**BOS 233-5: 2007 School clothing – Part 5: Dresses, tunics and gym dresses – Specification**

This standard specifies the materials, cut, make and trim of dresses, tunics and gym dresses.

ICS 61.020

Price code: 8

Pages: 16

**BOS 233-6: 2007 School clothing – Part 6: Girls' slacks and skirts - Specification**

This standard specifies the materials, cut, make and trim of girls' slacks and skirts.

ICS 61.020

Price code: 6

Pages: 12



- ICS 59.080.30 Price code: 6 Pages: 12
- BOS 235-6: 2007 School wear fabrics – Part 6: Shirting and blouse fabrics - Specification**  
 This Botswana Standard covers the requirements for fabrics suitable for use in the manufacture of school wear shirts and blouses.
- ICS 59.080.30 Price code: 6 Pages: 12
- BOS 235-7: 2007 School wear fabrics – Part 7: Fabrics containing textured yarns - Specification**  
 This Botswana Standard covers the requirements for fabrics, of two weave structures, containing textured yarns and suitable for use in the manufacture of school clothing.
- ICS 59.080.30 Price code: 6 Pages: 12
- BOS 235-8: 2007 School wear fabrics – Part 8: Warp-knitted fabrics -Specification**  
 This Botswana Standard covers the specific requirements for one type of warp-knitted fabric suitable for use in the manufacture of school clothing.
- ICS 59.080.30 Price code: 6 Pages: 12
- BOS 236-1: 2007 Shower trays - Shower trays made from acrylic material Part 1- Specification**  
 This Botswana Standard specifies the requirements for prefabricated shower trays made from acrylic materials. This Botswana Standard is applicable to all sizes and shapes of shower trays. No requirements are given for nominal shower tray sizes or dimensional coordination.
- No requirements are given for the method of supporting shower trays as methods vary, but the rigidity is ensured by the installation meeting the general performance requirements specified in this standard.
- ICS 91.140.70 Price code: 10 Pages: 20
- BOS 243: 2007 Toilet paper- Specification**  
 This Botswana Standard covers three types (see 4.1) of creped toilet paper supplied in rolls and inter-leaving sheets.
- ICS 85.080.20 Price code: 8 Pages: 16
- BOS 246: 2007 Animal feeding stuffs – Rabbit feeds - Specification**  
 This Botswana Standard specifies the basic requirements for rabbit feeds
- ICS 65.120 Price code: 8 Pages: 16
- BOS 248: 2007 The use of reinforcement cover devices for reinforced concrete - Code of practice**  
 This code of practice covers recommendations for provisions to achieve and maintain cover over reinforcement in *insitu* reinforced concrete members that are subject to normal construction loads. Where appropriate, the basic principles can also be applied to precast concrete or proprietary systems.
- ICS 77.140.15; 77.140.60; 91.100.30 Price code: 12 Pages: 24
- BOS 251-1: 2016 2<sup>nd</sup> ed. Furniture - Part 1: Seating - Specification**  
 This part of BOS 251 specifies the characteristics of seating. It covers the stability, strength and durability of seating other than school and outdoor seating. Ergonomic features of seating intended for use at a workstation, desk or table are covered. Requirements for the use of low-flammable textile fabrics are included. The toxicity aspect of the materials used in the manufacture of seating has not been taken into account (see Annex A).

**Note:** It is recommended that cognizance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140

Price code: 16

Pages: 40

**BOS 251-2: 2016 2<sup>nd</sup> ed. Furniture- Part 2: Desk, tables, and computer stands - Specification**

This part of BOS 251 specifies the characteristics of desks, tables and computer stands. It includes workstation furniture and covers items that are freestanding and items that are integrated into office partitions.

**Note:** It is recommended that cognizance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140

Price code: 12

Pages: 24

**BOS 251-3: 2007 Furniture- Part 3: Storage unit**

This part of BOS 251 specifies the characteristics of storage units for use in domestic and office situations. It covers such items as sheet steel furniture, kitchen units, shelving, credenzas and chests of drawers. It does not cover such items as industrial racking and shelving.

**Note:** It is recommended that cognizance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140

Price code: 14

Pages: 32

**BOS 251-4: 2007 Furniture – Part 4: Bunk beds for domestic use – Specification**

This part of BOS 251 specifies the characteristics of bunk beds for domestic use. It covers bunk beds that can be converted to single beds and bunk beds that consist of a single elevated bed above, for example, a storage area. This part of BOS 251 does not cover mattresses.

ICS: 97.140

Price code: 10

Pages: 20

**BOS 251-5: 2007 Furniture – Part 5: High chairs for domestic use – Specification**

This part of BOS 251 specifies the characteristics of children's high chairs for domestic use. It covers high chairs that are also intended to convert to low chairs with separate or attached tables. This part of BOS 251 does not cover high chairs that convert to pushchairs, walking frames, car chairs or swings.

ICS: 97.140

Price code: 10

Pages: 20

**BOS 251-6: 2007 Furniture – Part 6: Children's cots for domestic use – Specification**

This part of BOS 251 specifies the characteristics of children's cots for domestic use. It covers cots that are intended to prevent children from climbing out. This standard does not cover rocking, swinging or folding cots, nor does it cover cot mattresses.

ICS: 97.140

Price code: 10

Pages: 20

**BOS 252: 2007 see page 109**

**BOS 255:2007 Metallic hose assemblies for liquid petroleum gases and liquefied natural gases — Specification**

Specifies requirements and test methods for metallic hose assemblies used for the loading and unloading of liquefied petroleum gases under pressure.

The metallic hose assemblies are suitable for use at a pressure of 25 bar and temperatures from –200 °C to 70 °C.

ICS: 75.200

Price code: 22

Pages: 11





c) two types of cast iron inspection covers and frames

ICS 77.080.10

Price code: 17

Pages: 44

**BOS 268: 2007 Fibre cement sheets (flat and profiled) – Specification**

This Botswana Standard specifies requirements for flat and profiled (straight and curved) sheets manufactured from fibre-cement.

**Note:** Fibre-cement sheets should be used and fixed in accordance with the instructions of the relevant manufacturer, who will also be able to advise of the health risks involved and recommend precautions to be taken when working with the material. This standard does not cover coatings that are applied after the manufacture of the sheets.

ICS: 91.100.40

Price code: 14

Pages: 32

**BOS 269: 2008 The installation of wood and laminate flooring – Code of practice**

This Botswana Standard deals with the general principles of the installation of solid wood as well as suspended wood flooring.

ICS: 79.040; 91.060.30

Price code: 22

Pages: 68

**BOS 270: 2007 Monoplanar prefabricated timber roof trusses (nail-plated) – Specification**

This Botswana Standard specifies requirements for monoplanar prefabricated timber roof trusses assembled with nail plates. This standard is not applicable to bolted timber trusses manufactured on building sites.

ICS: 91.060.20; 79.040

Price code: 8

Pages: 16

**BOS 271: 2007 The mechanical stress grading of softwood timber (flexural method) – Method of test – Code of practice**

This code of practice covers the mechanical stress grading, by the determination of stiffness in bending, of solid timber (free from glued or other joints) derived from trees of the genus *Pinus* grown in Southern Africa.

ICS: 79.040

Price code: 8

Pages: 16

**BOS 272: 2013 Sweet pepper- Specification**

This Botswana standard applies to sweet pepper of varieties (cultivars) grown from *Capsicum annum* L. Var. *Grossum* to be supplied fresh to the consumer.

Sweet peppers for industrial processing as well as any other shaped sweet peppers are excluded.

ICS: 67.080.20

Price code: 6

Pages: 12

**BOS 276: 2008 High temperature wood preserving creosote- Specification**

This standard covers creosote that is derived entirely from coal tar produced by the high temperature carbonized of bituminous coal, and that is intended for use in the preservation of timber.

ICS: 91.060.20

Price code: 6

Pages: 12

**BOS 278: 2008 Thatched roof construction - Code of Practice**

This Botswana Standard covers the general requirements and methods of construction for thatched roofs of span not exceeding 6 m and supported by structural walls.

**Note:** For spans exceeding 6 m or not supported by structural walls, a rational design approach should be considered (See SANS 10400, BOS 204-1 and BOS 204-2)

ICS 91.060.20; 79.040

Price code: 12

Pages: 24

**BOS 281: 2008 Natural stone – Sandstone building blocks – Specification**

This Botswana Standard specifies the requirements for sandstone building blocks cut from natural sandstone rock and used for building works.

ICS: 91.100.15

Price code: 8

Pages: 16

**BOS 282-1: 2008 Signs for street and property identification Part 1: Retro-reflective signs**

This part of BOS 282 covers requirements for signs that are retro-reflective and that are used for the identification of streets and properties.

**Note:** a) Should any requirements of this part of BOS 282 conflict with statutory requirements, the later shall prevail.

- b) The standards referred to in this part of BOS 282 are listed in Clause 2
- c) Requirements that must be specified by the purchaser are listed in Annex A
- d) Notes regarding signs for street and property identification are given in Annex B
- e) Guidance on the verification of the quality signs produced to the requirements of this part of the specification is given in Annex C.
- f) Except under a Certification Mark Scheme, assessment of compliance with the requirements of 4.5 requires special agreement between the manufacturer and the purchaser

ICS 93.080.30

Price code: 12

Pages: 24

**BOS 288-1: 2009 Woven household fabrics and articles Part 1: Basic requirements for piece-goods and made-up articles – Specification**

This part of BOS 288 covers the definitions, basic requirements, requirements for packing, labelling, marking, and the inspection and testing of woven household fabric piece-goods and made-up articles. Specific requirements are covered by the relevant individual parts of BOS 288

ICS 59.080.30

Price code: 8

Pages: 16

**BOS 288-2: 2009 Woven household fabrics and articles Part 2: Winter sheeting, sheets and pillowcases – Specification**

This part of BOS 288 covers the specific requirements of three types of raised sheeting fabric, and articles in the form of winter sheets and pillowcases.

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-3: 2009 Woven household fabrics and articles Part 3: Cotton sheeting, sheets and pillowcases – Specification**

This Botswana Standard covers the specific requirements of four types of cotton sheeting fabric and articles in the form of sheets and pillowcases

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-4: 2009 Woven household fabrics and articles Part 4: Polyester-and-cotton sheeting, sheets and pillowcases – Specification**

This part of BOS 288 covers the specific requirements of six types of polyester-and-cotton sheeting fabric, and articles in the form of sheets and pillowcases.

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-5: 2009 Woven household fabrics and articles Part 5: Terry towelling, towels, and other terry weave articles – Specification**

This part of BOS 288 covers the specific requirements of five types of cotton terry towelling fabric, and articles in the form of bibs, face cloths, napkins, towels and bathmats.

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-6: 2009**                      **Woven household fabrics and articles Part 6: Cotton curtain fabrics – Specification**

This Botswana Standard covers the specific requirements of two types of cotton fabric suitable for curtaining.

ICS 59.080.30

Price code: 6

Pages: 12

**BOS 288-7: 2009**                      **Woven household fabrics and articles Part 7: Cotton curtain lining – Specification**

This part of BOS 288 covers the specific requirements of two types of cotton fabric suitable for curtain linings.

ICS 59.080.30

Price code: 8

Pages: 16

**BOS 288-8: 2009**                      **Woven household fabrics and articles Part 8: Bedspread fabrics and bedspreads - Specification**

This part of BOS 288 covers the specific requirements of three types of cotton fabric and articles in the form of bedspreads.

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-9: 2009**                      **Woven household fabrics and articles Part 9: Cotton flannelette duster fabric and dusters – Specification**

This Botswana Standard covers the specific requirements of one type of cotton flannelette fabric and articles in the form of dusters.

ICS 59.080.30

Price code: 8

Pages: 16

**BOS 288-10: 2009**                      **Woven household fabrics and articles Part 10: Cotton ticking - Specification**

This Botswana Standard covers the specific requirements of two types of cotton fabric suitable for mattress ticking.

ICS 59.080.30

Price code: 8

Pages: 16

**BOS 288-11: 2009**                      **Woven household fabrics and articles Part 11: Feather proof fabrics – Specification**

This part of BOS 288 covers the specific requirements of two types of cotton fabric and suitable for the use in the manufacture of feather pillows.

ICS 59.080.30

Price code: 8

Pages: 16

**BOS 288-12: 2009**                      **Woven household fabrics and articles Part 12: Kitchen cloth fabric and kitchen cloths – Specification**

This part of BOS 288 covers the specific requirements of four types of cotton kitchen cloth fabric and made-up kitchen cloths.

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-13: 2009**                      **Woven household fabrics and articles Part 13: Cotton huckaback towelling and towels – Specification**

This part of BOS 288 covers the specific requirements of one type of cotton huckaback towelling fabric and articles in the form of hemmed or roller towels.

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-14: 2009**                      **Woven household fabrics and articles Part 14: Cotton tablecloth fabric, tablecloths and table napkins – Specification**

This part of BOS 288 covers the specific requirements of three types of cotton fabric, and articles in the form of table cloths and table napkins.

ICS 59.080.30

Price code: 10

Pages: 20

**BOS 288-15: 2009**                      **Woven household fabrics and articles Part 15: Cotton dishcloth fabrics and dishcloths - Specification**

This part of BOS 288 covers the specific requirements of three types of cotton fabric, and articles in the form of dishcloths.

ICS 59.080.30

Price code: 8

Pages: 16

**BOS 291: 2006**                      **Flush valves for WC flushing cisterns – Specification**

This Botswana Standard covers requirements for the construction and performance of four types and three sizes of flush valves for WC flushing cisterns.

ICS: 91.140.70

Price code: 10

Pages: 20

**BOS 292: 2008**                      **WC flushing systems (low flushing capacity) that operate with flushing cisterns – Specification**

This Botswana Standard specifies requirements for the components, assembly and combined performance of WC flushing systems that operate in conjunction with cisterns that have stored water capacities of 6 litres and less.

**Note:** The major components of the system will be marked to indicate that they are intended to be used as part of a low-capacity flushing system. Although marked in this way, low flush pans covered by this standard could also be used effectively in conjunction with normal flushing cisterns (9 litres, 11 litres and 13 litres). However, low-capacity cisterns should not be installed in systems other than low-flushing systems.

ICS: 91.140.70

Price code: 8

Pages: 16

**BOS 293: 2008**                      **WC flushing cisterns – Specification**

This Botswana Standard covers requirements for hand-operated high-level, low-level, near-level and close-coupled cisterns of various flushing capacities and that are designed for a single-flush operation, a dual-flush operation or an interruptible-flush operation.

ICS: 91.140.70

Price code: 10

Pages: 20

**BOS 294: 2008**                      **Indoor Venetian blinds – Specification**

This Botswana Standard covers the dimensional and constructional requirements for Venetian blinds (other than black-out blinds), of area not exceeding 11.125m<sup>2</sup> and width not exceeding 4m, of the following types:

- type A: Blinds fitted with slats of width 50 mm
- type B: Blinds fitted with slats of width 35 mm
- type C: Blinds fitted with slats of width 25 mm

**Note:** Special auxiliary fittings and mechanisms are not covered by this specification and, if required, their construction, operation, method of attachment, etc. must be agreed upon between purchaser and supplier.

ICS: 91.060.50

Price code: 10

Pages: 20

**BOS 295: 2008**                      **Classroom furniture – Specification**

This standard covers the requirements for the materials, construction, finish and performance of tables, teachers' desks, chairs and stools for use in classrooms.

ICS: 97.140

Price code: 17

Pages: 44

**BOS 297: 2008**                      **Animal feeding stuffs – Pet foods - Specification**

This Botswana Standard specifies requirements for pet (cats and dogs) foods.

ICS: 65.120

Price code: 8

Pages: 16



ICS: 29.140.20; 43.040.20

Price code: 18

Pages: 48

**BOS 303-2: 2008**                      **Lights for motor vehicles - Part 2 - Headlights**

This part of the specification covers the requirements for the photometric properties of headlights emitting an asymmetrical dipped beam or a main beam, or both, and used in headlight systems meeting left-hand rule-of-road requirements. As the requirements of this part of the specification are based on those given in ECE Regulations No. 1, No. 5, No. 8, No. 20 and No. 31, reciprocity of compliance of headlights with the relevant requirements can be assumed.

**Note:** Guidance on the verification of the quality headlights produced to this part of the specification, and a sampling plan to be used to assess compliance with the specification of a lot of headlights are given in Annex A.

ICS 29.140.20; 43.040.20

Price code: 8

Pages: 16

**BOS 303-3: 2008**                      **Lights for motor vehicles - Part 3 - Secondary lights**

This part of the specification covers the photometric characteristics of secondary lights for vehicles (see 3.1) ( i.e. position lights, stop lights, direction-indicator lights, parking lights, rear registration-plate lights and end-outline marker lights) and of assemblies of these.

ICS 29.140.20; 43.040.20

Price code: 13

Pages: 28

**BOS 304: 2009 see page 109**

**BOS 305: 2009 see page 109**

**BOS 306: 2008**                      **Bottled water – Code of hygiene practice**

This code specifies appropriate general practices for collecting, processing, packaging, storing, and transporting bottled water for direct human consumption, including bottled natural water and bottled water either than natural water, so as to guarantee a safe and healthy wholesome product.

ICS: 13.060.20

Price code: 12

Pages: 24

**BOS 311: 2009**                      **The manufacture and erection of lightweight metal trusses- Code of Practice**

This Botswana standard gives guidance on the manufacture, erection and bracing of lightweight metal roof trusses.

ICS: 91.060.20

Price Code: 17

Pages: 44

**BOS 314: 2009**                      **Steel kitchen cup-boards: Built-in – Specification**

This Botswana standard covers the requirements for built-in and free-standing steel kitchen unit cupboards made from sheet steel.

**Note:** Requirements that must be specified by the purchaser and those that must be agreed upon between supplier and the purchaser are listed in Annex A.

ICS: 97.040.10

Price code: 10

Pages: 20

**BOS 315: 2009**                      **Stainless steel sit-on sinks with draining boards (for domestic use) – Specification**

This Botswana standard covers material, dimensional, and constructional requirements for the stainless steel sinks with draining boards for domestic use.

**Note:** Requirements that are specified by the purchaser are listed in Annex A.

ICS: 91.140.70

Price code: 8

Pages: 16

**BOS 316: 2009**                      **Mild steel nails - Specification**

This Botswana Standard covers the requirements for wire and cut mild steel nails and tacks for general use, and eight types of wire nails for pneumatic gun nailers.

ICS: 21.060.50, 77.140.99

Price Code: 14

Pages: 32

**BOS 317: 2009 Coats and jackets (protective, unlined) – Specification**

This Botswana Standard covers the requirements for the materials and make of jackets and three-quarter length and full length coats suitable for use by personnel employed in light industry and in the medical profession.

ICS: 13.340.10

Price Code: 10

Pages: 20

**BOS 318: 2009 High foam laundry detergent – Specification**

This Botswana Standard specifies characteristics of two types of powder laundry detergents intended for the washing (by hand and in domestic washing machines), in either hard or soft water, of textiles made of cotton and or synthetic fibre yarns.

ICS: 71.100.40

Price Code: 8

Pages: 16

**BOS 319-8: 2010 Construction works – Part 8: Concrete works (structural)**

This Botswana Standard covers concrete works related to the structural use of concrete in buildings and structures where the design and supervision of plain, reinforced, pre-stressed (by means of pre-tensioning or post-tensioning) and precast concrete are under the direct control of appropriately qualified engineers and technologists. It does not cover the structural use of concrete in piles, harbour and marine works, and underground works in mines.

ICS: 93.010

Price Code: 21

Pages: 64

**BOS 319-9: 2010 Construction works – Part 9: Concrete works (minor works)**

This Botswana Standard covers works in foundations, slabs, stairways, masonry walls, pipelines, manholes, latrines, conservancy tanks, septic tanks and the like, where the design and supervision of plain, reinforced and precast concrete are not necessarily under the direct control of appropriately qualified engineers and technologists and no special finishes to the concrete are required.

ICS: 93.010

Price Code: 12

Pages: 24

**BOS 321:2014 Fixed electric storage water heaters – General Requirements**

Specifies the characteristics of thermostatically controlled fixed electric storage water heaters intended for indoor and outdoor domestic use and for operation on a.c. supplies at voltages not exceeding 250 V for single phase and 480 V for other appliances.

This standard is also applicable to fixed electric storage water heaters used in conjunction with collectors for solar water heating.

ICS: 91.140.65

Price code: 20

Pages: 56

**BOS 329-1: 2010 Steel tubes for non-pressure purposes Part 1: Sections for scaffolding, general engineering and structural applications**

This part of BOS 329 covers the requirements for;

- a) tubes for scaffolding
- b) hollow sections for structural and general engineering purposes, and
- c) cold-drawn and cold-formed hollow sections made from welded or seamless tubes

ICS: 77.140.75; 91.080.10

Price Code: 12

Pages: 24

**BOS 330-1: 2011 The design, erection, use and inspection of access scaffolding – Part 1: Steel access scaffolding**

This part of BOS 330 covers the design, erection use and inspection of steel access scaffolding commonly used for supporting workers and materials, plant or equipment during construction, maintenance and demolition work.

This part of BOS 330 does not cover:



- Scaffolding for false work (i.e. where scaffolding materials are used primarily for temporary support of the works during construction).
- Industrial rope access work, which is covered by SANS 10333.
- Suspended scaffolding
- The use of scaffolding for construction of temporary seating stands and stages which are covered in SANS 1169.

ICS: 91.220

Price Code: 22

Pages: 68

**BOS 333: 2010 Burglar – resistant safes – Specification**

This Botswana Standard specifies requirements for eight categories of burglar-resistant safes.

**Note:** Requirements that must be specified by the purchaser and those that must be agreed upon between the supplier and the purchaser are listed in Annex A

ICS: 97.040.10

Price Code: 10

Pages: 20

**BOS 334: 2010 Servicing, repair and reconditioning of safes, strong room doors, vault doors and fire resistant equipment – Code of practice**

This Botswana Standard specifies requirements for servicing, repair and reconditioning of safes, strong room doors, vault doors and fire resistant equipment.

ICS: 13.310

Price Code: 6

Pages: 12

**BOS 337: 2012 Plastics material for food contact use – Specification**

This standard specifies requirements for materials and the procedure for use during the various stages of production of plastics materials, coating and printing of plastics items for food contact and subsequent use. This includes such items as packages, domestic containers, wrapping materials, utensils or any other plastics items intended for food contact applications.

ICS: 67.250

Price Code: 19

Pages: 52

**BOS 358:2009 Low foam laundry detergent — Specification**

This Botswana Standard specifies characteristics of a powdered low – foam laundry detergent intended for the washing (using domestic washing machines), in either hard or soft water, of textiles made of cotton and or synthetic fibre yarns.

ICS: 71.100.40

Price code: 5

Pages: 10

**BOS 365: 2010 Drinking water for livestock and poultry – Specification**

This Botswana Standard specifies physical, chemical and microbiological requirements for water (including treated waste water) used for consumption by livestock and poultry.

ICS: 13.060.45

Price Code: 8

Pages: 16

**BOS 374: 2010 Ammoniated liquid detergent cleaner – Specification**

This Botswana Standard specifies characteristics of an ammoniated liquid detergent cleanser that has a mild abrasive action and is suitable for the cleaning of hard surfaces, but is not suitable (either concentrated or diluted) for the cleaning of floors that have a coating of polish.

ICS: 71.100.40

Price Code: 6

Pages: 12

**BOS 378: 2010 Concrete retaining blocks – Specification**

This standard specifies requirements for blocks made from concrete, which are dry stacked into a wall which is used to retain earth, sand or stone and other superimposed loads.

ICS: 93.010

Price Code: 10

Pages: 20



**BOS 425: 2012 Industrial boots (including safety boots) with direct-vulcanized soles and heels – Specification**

This standard specifies the requirements for the materials and construction of industrial boots, including safety boots, made in accordance with the direct-vulcanized principle.

ICS: 61.060

Price Code: 18

Pages: 48

**BOS 426: 2012 Industrial boots (including safety boots) with stuck-on pre-moulded or direct-injection-moulded soles and heels – Specification**

This standard specifies the requirements for the materials and construction of industrial boots, including safety boots, made in accordance with the stuck-on pre-moulded or direct-injection-moulded principle.

ICS: 61.060

Price Code: 17

Pages: 44

**BOS 430: 2012 Carrot – Grading requirements**

This Botswana Standard specifies requirements for fresh carrots of varieties “or cultivars” grown from *Daucus carota L.*, which are for direct human consumption and excludes carrots for industrial processing. It is intended to define the quality attributes of fresh carrots after harvesting and to grade them according to the different quality levels. It also covers the aspects of pesticides residue limits and post-harvest activities, all intended for marketing purposes.

ICS: 67.080.20

Price Code: 6

Pages: 12

**BOS 449: 2011 see page 109**

**BOS 450: 2011 see page 109**

**BOS 455: 2012 Boiler suits and workwear suits – Specification**

This standard specifies the requirements for the material, cut, make and trim of boiler suits and separate jackets and pairs of trousers of workwear suits

ICS: 13.340.10

Price Code: 14

Pages: 32

**BOS 463: 2011 Water quality for irrigation – Specification**

This Botswana Standard specifies requirements for physical, chemical, biological and microbiological requirements of water used for irrigation purposes, irrespective of its source (domestic water, grey water, borehole, river, waste water etc.) whether it has been treated or not.

**Note:** The standard is intended to provide information to make judgements on the suitability of water to be used for irrigation purposes, primarily for crop production.

ICS: 13.060.20

Price Code: 8

Pages: 16

**BOS 471: 2012 Butternut – grading requirements**

This Botswana standard specifies requirements for the squash *Cucurbita moschata*, butternut type to be supplied fresh to the consumer. It excludes butternut squash for industrial processing or butternut that underwent post-harvest processing. This standard is intended to define the quality attributes of the above mentioned squash after harvesting and to grade it according to the different quality levels. It also covers aspects of pesticide residue limits and post-harvest activities all intended for marketing purposes.

ICS: 67.120.10

Price Code: 6

Pages: 12

**BOS 472: 2012 Beekeeping and bee products – Code of practice**

This Botswana Standard gives guidelines for the orderly conduct of beekeeping, for the improvement of the products of beekeeping and for the prevention and eradication of diseases and pests among them. It covers primary production of bee products of which include the following activities and practices:

- a) Beehive management

b) Pest and disease control and veterinary treatments

ICS: 67.180.10

Price Code: 8

Pages: 16

**BOS 473: 2011 Addictives in fruit and vegetable drinks and non-alcoholic drinks – Specification**

This Botswana Standard specifies requirements for use of addictives in fruit and vegetable drinks and non-alcoholic drinks.

ICS: 67.160.20

Price Code: 8

Pages: 16

**BOS 489: 2011 Textured wall coatings, emulsion based, for interior and exterior use – Specifications**

This Botswana Standard specifies requirements for general purpose pigmented wall coatings that have an emulsion base and are suitable for interior and exterior use. The coatings are intended for use on crazed concrete and plaster surfaces to obliterate hair-line cracks and to prevent their recurrence, on off-shutter concrete surfaces, brickwork, stone work and fibre cement.

ICS: 87.040

Price Code: 12

Pages: 24

**BOS 498: 2012 Ambient air quality – Limits for common pollutants**

This Botswana standard specifies limit values for common air pollutants to ensure that the negative effects of such pollutants on human health and the environment are prevented or reduced.

Note: Limit values for underground and air quality shall be as specified in the latest version of the Mines, Quarries, Works and Machinery Act of Botswana.

ICS: 13.020.10

Price Code: 16

Pages: 36

**BOS 513-1: 2012 Conductors for overhead electrical transmission lines – Part 1: Copper wires and stranded copper conductors**

This part of the specification applies to uninsulated, non-alloyed copper (in the annealed or in the hard-drawn condition) in the form of single wires or stranded conductors and intended use as

- a) Annealed jointing wire
- b) Annealed binding wire
- c) Hard-drawn circular wire for telecommunication purposes, and
- d) Stranded hard-drawn conductors for overhead transmission lines and overhead service connectors.

Note 1: Requirements that should be specified by the purchaser are listed in Annex A

Note 2: Assessment of compliance with the requirements of 4.2.1 and, in the case of stranded conductors, 5.1 requires special agreement between supplier and purchaser.

ICS: 29.240.20

Price Code: 10

Pages: 20

**BOS 513-2: 2012 Conductors for overhead electrical transmission lines – Part 2: Stranded aluminium conductors**

This part of the specification applies to uninsulated, hard drawn aluminium conductors for overhead transmission lines.

Note 1 Requirements that should be specified by the purchaser are listed in Annex A

Note 2 Assessment of compliance with the requirements of 4.1 and 5.1 requires special agreement between supplier and purchaser.

ICS: 29.240.20

Price Code: 10

Pages: 20

**BOS 513-3: 2012 Conductors for overhead electrical transmission lines – Part 3: Aluminium conductors, steel reinforced**

This part of BOS 513 specifies requirements for uninsulated stranded hard-drawn aluminium conductors, steel reinforced, for overhead transmission lines.

ICS: 29.240.20

Price Code: 8

Pages: 24



**BOS 536-2:2014** **Basics of structural design and actions for buildings and Industrial structures – Part 2: Self weight and imposed loads**

This standard gives guidance on the design and actions for the structural design of buildings and industrial structures. It includes the following:

- a) densities of construction materials and stored materials;
- b) self – weight of construction works; and
- c) imposed loads for buildings.

Where a building or structural member can be expected to be subject to actions not listed in here, the most appropriate information should be used.

This part of BOS 536 does not cover design situations and effects of actions in silos and tanks caused by water or other materials.

ICS: 91.010.30

Price code: 16

Pages: 36

**BOS 536-3:2014** **Basics of structural design and actions for buildings and Industrial structures – Part 3: Wind actions**

The scope of application of this part of BOS 536 falls within the general scope of application as given in BOS 536-1.

Scope of BOS 536-3

1.2.1 This part of BOS 536 gives guidance on the determination of natural wind actions for the structural design of buildings and industrial structures including the entire structure, part of the structure, or elements attached to the structure.

1.2.2 This part of BOS 536 is intended to predict characteristic wind actions on land-based structures and includes the following:

- buildings and structures with an overall height of up to 100 m;
- elements of buildings and structures having a natural frequency greater than 5 Hz; and
- chimneys with circular cross-sections, with heights of less than 60 m and a height to diameter ratio of less than 6.5.

1.2.3 This part of SANS BOS 536 does not cover the following structures:

- a) structures and buildings higher than 100 m;
- b) dynamic effects and design of dynamically sensitive structures (for example slender chimneys);
- c) off-shore structures;
- d) bridge structures;
- e) structures and buildings of unusual shapes;
- f) structures, or their components, which are not fixed permanently but are designed to accommodate movement (for example, revolving antennas, telescope dishes and movable roofs);
- g) high risk structures (for example those containing nuclear or biological material); or
- h) transmission lines.

1.2.4 This part of BOS 536 does not cover wind loads and wind effects due to high intensity winds, for example, tornadoes or micro-bursts.

NOTE The high intensity winds are particularly rare and localised events, therefore, having a very small probability of occurrence at specific geographical location. However, wind forces generated by short duration gusts can be significantly greater than those considered in the international standard design practice.

This part of BOS 536 does not cover designs assisted by testing and measurements where wind tunnel tests or properly validated numerical methods (or both), are used to obtain the load and response information, based on appropriate models of the structure, topography and the boundary-layer wind conditions.

NOTE Design standards are not able to consider the infinite permutations and combinations of building forms used in the modern design. The degree of applicability of the generic information included in the loading code to specific cases of structures to be designed needs to be assessed. In cases in which the agreement between the loading code information and the structure to be designed is poor, it is advisable to seek expert advice or design by testing (or both).

This part of BOS 536 does not cover designs where the wind parameters appropriate to the specific site (for example a site which is significantly influenced by topography), as well as load response data have to be obtained from appropriate full-scale measurements.

NOTE In these cases the designer could consult appropriate standards such as EN 1991-1-4, or specialist literature.

ICS: 91.030

Price code: 24

Pages: 88

**BOS 536-5:2014** **Basics of structural design and actions for buildings and Industrial structures – Part 5: Basis for geotechnical design and actions**

This part of BOS 536 sets out the basis for geotechnical design and gives guidance on the determination of geotechnical actions on buildings and industrial structures including

- vertical earth loading,
- earth pressure,
- ground water and free water pressure, and
- actions caused by ground movement.

The standard also gives procedures for determining representative values for geotechnical actions.

It does not cover the design of geotechnical structures such as slopes, embankments or free-standing retaining structures.

ICS: 91.010.30

Price code: 16

Pages: 40

**BOS 536-6:2014** **Basics of structural design and actions for buildings and Industrial structures – Part 6: Actions induced by cranes and machinery**

This part of BOS 536 specifies imposed loads associated with overhead travelling bridge cranes on runway beams at the same level as well as the actions induced by stationary machinery.

The scope of application of BOS 536-6 falls within the general scope of application as given in BOS 536-1.

ICS: 91.010.30

Price code: 17

Pages: 44

**BOS 536-8:2014** **Basics of structural design and actions for buildings and Industrial structures – Part 8: Actions during execution**

This part of BOS 536 gives general principles and rules for the determination of actions to be taken into account during the execution of buildings and industrial structures.

NOTE The allocation of responsibilities during the construction process forms part of the contractual documents for each individual project and are generally based on the responsibilities as assigned in appointments and contracts. Such responsibilities are therefore not implied in this part of BOS 536.

The standard may be used as guidance for the determination of actions to be taken into account for different types of construction works, including structural alterations such as refurbishment and partial or full demolition (see Annex A).

It gives rules for the determination of actions to be used for the design of auxiliary construction works needed for the execution of buildings and industrial structures.

This part of BOS 536 does not cover design rules for auxiliary construction works.

NOTE These design rules for auxiliary construction works may be defined for the individual project. Guidance may be found in European standards such as EN 12812.

Rules concerning safety of people in and around the construction site are out of the scope of this part of BOS 536. Such rules may be defined for the individual project in terms of the relevant national legislation (see foreword).

ICS: 91.010.30

Price code: 12

Pages: 24





**BOS 578:2014                      Kerosene for domestic heating and illuminating – Specification**

Specifies the requirements for a hydrocarbon fuel for use in wick-fed pressure vaporizing and other kerosene burning appliances for space heating, cooking and illumination

ICS: 75.160.20

Price code: 8

Pages: 16

**BOS 580-1:2015                      The petroleum industry — Part 1: Storage and distribution of petroleum products in above-ground bulk installations – Code of practice**

This standard covers the layout and design of petroleum bulk depots, and the installation of equipment of the types normally used for the handling, storage and distribution of petroleum products and their derivatives, other than equipment that is used for storage and dispensing on consumer premises (including service stations) and for which relevant standards exist.

ICS: 75.200

Price code: 24

Pages: 88

**BOS 580-2:2015                      The petroleum industry — Part 2: Electrical and other installations in the distribution and marketing sector – Code of practice**

- 1.1 This part of BOS 580 covers the recommended safe practices in the design, construction, installation and maintenance of electrical, earthing and bonding systems intended to be used in flammable and combustible liquid storage, pumping, distribution and marketing facilities.
- 1.2 This part of BOS 580 does not cover the requirements for flammable dust. This standard also does not apply to refineries or exploration facilities, unless if any of these installations are similar to facilities listed in clause 1.1 above.

ICS: 75.200

Price code: 19

Pages: 52

**BOS 580-3:2015                      The petroleum industry — Part 3: The installation, modification, and decommissioning of underground storage tanks, pumps/dispensers and pipework at service stations and consumer installations – Code of practice**

- 1.1 This part of BOS 580 covers provisions for the installation of underground storage tanks of individual capacity not exceeding 85 000 m<sup>3</sup>, pumps/dispensers and pipework at service stations and consumer installations.
- 1.2 This part of BOS 580 does not cover the installation of pressurized underground storage tanks such as liquefied petroleum gas (LPG) and compressed natural gas (CNG) storage vessels.

ICS: 75.200

Price code: 16

Pages: 40

**BOS 582: 2013                      Electric welded low carbon steel pipes for aqueous fluids (large bore) - Specification**

This Botswana Standard covers three grades of carbon steel pipes of size 219.11 mm to 2 230 mm used in the conveyance of water and other aqueous fluids.

ICS: 77.140.75

Price Code: 10

Pages: 20

**BOS 589-1:2014                      Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/ 3 300 V) — Part 1: Packaging and marking — Requirements**

1.1 This part of BOS 589 covers requirements for packing and marking, for single-core and multicore extruded solid dielectric insulated cables of rated operating voltage ( $U_0/U$ ) in the range 300/500 V to 1 900/3 300 V, for use in fixed installations, as covered by BOS 589-2, and SANS 1507-3 to SANS 1507-6.

1.2 Specific requirements are given for a number of types of cables in common use. The types are as follows:

- single-core and multicore cables, armoured and unarmoured;
- multicore flat cables with and without an earth continuity conductor;
- multicore round cables with aluminium / PVC laminate and an earth continuity conductor;
- cables with concentric conductors;
- cables with split concentric neutral and earth conductors;

panel/cubicle cables, excluding flexible cables and cords; and insulated earth conductors.

1.3 This specification also covers cables that reduce the overall risk associated with fires.

**ICS 29.060.20**

**Price code: 5**

**Pages: 9**

**BOS 589-2:2014 Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V) – Part 2: Wiring cable - Specification**

This part of BOS 589 covers the requirements for construction, materials, dimensions and electric properties of unarmoured single-core and multicore extruded dielectric insulated cables with rated operating voltages (U<sub>0</sub>/U) and 600/1 000 V, up to and including a conductor cross-sectional area of 16 mm<sup>2</sup> for use in fixed installations.

This part of BOS 589 also covers the following specific types of cables:

- a) insulated wire (600/1 000 V);
- b) multicore flat and circular sheathed cables (300/500 V);
- c) single-core unsheathed panel/cubicle cables (300/500 V); and
- d) multicore round cables with aluminium/PVC laminate and an earth continuity conductor (300/500 V).

**ICS 29.060.20**

**Price code: 10**

**Pages: 20**

**BOS 590: 2013 Head Lettuce – Specification**

This Botswana standard applies to fresh head lettuce including crisp head and iceberg type lettuce, *Lactuca sativa* var, *capitata* L to be supplied fresh to the customer. It does not apply to produce for industrial processing, produce presented as individual leaves, lettuce with root ball or lettuces in pots.

ICS: 67.080.20

Price Code: 6

Pages: 12

**BOS 598-10:2016 Civil engineering test methods, Part 10: AVC (aggregate crushing value) and 10% Fact (fines aggregate crushing test) value of coarse aggregates**

**BOS 612:2014 Motor vehicles of categories M2 and M3 – Specification**

This specification covers the requirements for motor vehicle models of category M2 and M3, and minibuses, not previously registered or licensed in Botswana, designed or adapted for operation on a public road.

ICS: 43.080.20

Price code: 12

Pages: 24

**BOS 613- 1: 2014 Conveyor belt idlers – Part 1: Troughed belt conveyor idlers (metallic and non- metallic) for idler roller rotational speeds of up to 750 revolutions per minute- Specification**

This part of BOS 613 specifies the characteristics of conveyor belt idlers that have metallic or non- metallic rolls for belt widths of up to 2 400 mm and for rotational speeds of up to 750 revolutions per minute.

ICS: 53.040.20

Price Code: 14

Pages: 32

**BOS 613- 2: 2014 Conveyor belt idlers - Part 2: Link suspended idlers and fixed- form suspended idlers (metallic and non- metallic) for idler roller rotational speeds of up to 750 revolutions per minute- Specification**

This part of FDS 613 specifies requirements for link suspended conveyor belt idlers and fixed- form suspended idlers not included in FDS 613-1.

*Note:* initially, this part of FDS 613 will cover only equal roll 127 mm diameter series 25 idlers for link suspended idlers and fixed- form suspended idlers.

ICS: 53.040.20

Price Code: 10

Pages: 20

**BOS 613-3:2014**                      **Conveyor belt idlers – Part 3: Performance specifications for troughed belt conveyor idlers (metallic and non-metallic) for idler roller rotational speeds of up to 750 revolutions per minute**

Specifies the performance specifications for troughed belt conveyor idlers that have metallic or non-metallic rolls for idler roller rotational speeds of up to 750 revolutions per minute for belt widths of up to and including 2400 mm.

ICS: 53.040.20

Price Code: 14

Pages: 32

**BOS 618:2014**                      **Ladies' shoes, flat lasted, with stuck-on outer soles — Specification**

Specifies the requirements for materials and construction for ladies' shoes made in accordance with the flat-lasted stuck-on principle.

ICS: 61.060

Price code: 16

Pages: 40

**BOS 619:2014**                      **Men's flat lasted shoes, with stuck-on outer sole — Specification**

Specifies the requirements for materials and construction for men's shoes with stuck-on outer soles, made in accordance with the flat lasted principle.

ICS: 61.060

Price Code: 16

Pages: 36

**BOS 622: 2014**                      **Broccoli – Grading Requirements**

This Botswana standard specifies grading requirements for broccoli (single heading or calabrese type) and covers varieties (cultivars) grown from *Brassica oleracea* var. *italica* Plenck to be supplied fresh to the consumer. Broccoli for industrial processing is excluded.

ICS: 67.080.20

Price Code: 8

Pages: 16

**BOS 623: 2014**                      **Cauliflower – Grading Requirements**

This Botswana standard covers grading requirements for cauliflowers of varieties (cultivars) grown from *Brassica oleracea* var. *botrytis* L. to be supplied fresh to the consumer, cauliflowers for industrial processing being excluded.

ICS: 67.080.20

Price Code: 8

Pages: 16

**BOS 626: 2016**                      **Automotive biodiesel – Fatty Acid Methyl Esters (FAME) for diesel engines – Requirements and test methods**

This standard specifies requirements and test methods for marketed and delivered biodiesel to be used either as automotive fuel for diesel engines at 100 % concentration, or as an extender for automotive fuel for diesel engines in accordance with the requirements of BOS 576. At 100 % concentration it is applicable to fuel for use in diesel engine vehicles designed or subsequently adapted to run on 100 % biodiesel.

NOTE BOS 576 deals with automotive fuel for diesel engines.

ICS 75.160.20

Price code: 11

Pages: 22

**BOS 628: 2015**                      **High performance engine oil for petrol engines (for API service category SJ).**

This standard covers one type of engine lubricating oil suitable for the crankcase lubrication of spark-ignition engines of passenger cars (naturally aspirated or turbo charged), light duty trucks and heavy duty trucks that operate under API service category SJ).

ICS: 75.100

Price Code: 10

Pages: 20

**BOS 629: 2015**                      **High performance engine oil for petrol engines (for API**

**service category SL).**

This standard covers one type of engine lubricating oil suitable for the crankcase lubrication of spark-ignition engines of passenger cars (naturally aspirated or turbo charged), light duty trucks and heavy duty trucks that operate under API service category SL.

ICS: 75.100

Price Code: 10

Pages: 20

**BOS 639: 2014 Leafy vegetables – Grading requirements**

This Botswana standard applies to grading of varieties (cultivars) grown from *Brassicca oleracea var acephala* (kales) *Brassica napus* (Rape), *Brassica carinata* (Ethiopian mustard), *Brassica juncea* (Mustard greens Leaf mustard, Brown mustard), *Tsungu* and *Beta vulgaris var cicla* to be supplied fresh to the customer. Leafy vegetables for industrial processing are excluded.

ICS: 67.080.20

Price Code: 6

Pages: 12

**BOS 640: 2014 Cucumber – Grading Requirements**

This standard applies to cucumbers of varieties (cultivars) grown from *cucumis sativus* L. To be supplied fresh to the customer, cucumbers for industrial processing and gherkins being excluded.

ICS: 67.080.20

Price Code: 6

Pages: 12

**BOS 642:2014 Watermelons – Grading requirements**

Specifies the requirements of watermelons of varieties (cultivars) grown from *citrullus lanatus* (Thunb.) to be supplied fresh to the consumer, watermelons for industrial processing being excluded.

ICS: 67.080.20

Price Code: 6

Pages: 12

**BOS 656:2015 Chicken meat – Specification**

This Botswana Standard applies to chicken meat from domestic fowls (*Gallus domesticus*) covering fresh and frozen meat at processing plant and until delivered to market.

ICS: 67.120.10

Price code: 4

Pages: 8

**BOS 660: 2014 Jam, Jellies and Marmalades – Specification**

This Botswana standard covers specification for jams, jellies and marmalades offered for direct consumption, including for catering purposes or for repacking if required by the purchaser. This Standard does not apply to:

- a) products when indicated as being intended for further processing such as those intended for use in the manufacture of fine bakery wares, pastries or biscuits;
- b) products which are clearly intended or labelled as intended for special dietary uses;
- c) reduced sugar products or those with a very low sugar content;
- d) products where the foodstuffs with sweetening properties have been replaced wholly or partially by food additive sweeteners.

ICS: 67.080.20

Price Code: 10

Pages: 20

**BOS 670:2015 Good agricultural practices for horticulture – Code of practice**

The GAP code covers the production, harvesting and post-harvest handling of fresh fruits and vegetables on farm and post-harvest handling in locations where produce is packed for sale. This code may be used for all types of production systems but it is **NOT** a standard for certification of organic products or GMO free products.

ICS: 67.080.20

Price Code: 14

Pages: 32

**BOS 671:2014 Beeswax – Specification**

This standard specifies the minimum requirements and methods of test for beeswax.  
Price code: 9

ICS: 67.140.10 Price code: 12 Pages: 24

**BOS 672: 2015 Bottled tomato sauce – Specifications**

This Botswana standard prescribes the requirements and the method of test for tomato sauce.

ICS: 67.080.20 Price Code: 12 Pages: 24

**BOS 680: 2015 Cereal products — Mageu — Specification**

Specifies requirements and quality test methods of mageu for direct human consumption.

ICS: 67.160 Price code: 3 Pages: 6

**BOS 681: 2015 Food grade salt – Specification**

This standard applies to salt used as an ingredient of food, both for direct sale to the consumer and for food manufacture. It applies also to salt used as a carrier of food additive and/ or nutrients.

ICS: 71.060.50 Price Code: 6 Pages: 12

**BOS 683: 2016 Pastry pies - Specification**

**BOS 686:2015 Requirements for a Hazard Analysis and Critical Control Point (HACCP) System**

Specifies the requirements for the development, implementation and maintenance of a HACCP system as a preventative system to enhance the safety of food.

ICS: 67.020 Price Code: 13 Pages: 28

**BOS 690: 2015 Food management System – Requirements for prerequisite programmes (PRPs)**

This Botswana standard specifies the requirements for the development, implementation, maintenance and continual improvement of prerequisite programmes (PRPs) for food safety management.

Note: where exclusions are made or alternative measures implemented, these need to be justified by documented evidence. Any exclusions or alternative measures adopted should not affect the ability of the food handling organisation to comply with the requirements of this standard.

ICS: 67.020 Price Code:16 Pages: 40

**BOS 696-2:2016 Flexible polyurethane foam sleeping mats and mattresses Part 2: foam mattresses for domestic and hotel use**

**BOS 701: 2016 Non-automatic fire-fighting systems in buildings – Code of practice**

**BOS 705: 2016 Steel tanks for flammable and combustible liquids – Specification**

Specifies requirements for the design and construction of steel tanks for the storage of flammable and combustible liquids. It sets out requirements for tank joints and accessories (e.g. vents, manholes, fill level indicators) and specifies tank testing requirements.

It applies only to tanks that are used to store substances that are liquid at ambient temperatures and atmospheric pressures.

ICS: 23.020.10, 75.200 Price Code: 13 Pages: 28

**BOS 712:2017 Egg trays — Specification**

This standard gives specification for egg trays made of raw materials, such as pulp, recycled pulp, plastic or recycled plastic, for transportation and storage of eggs (heinafter, "trays").

ICS: 97.180, 97.145

Price code: 6

Pages: 12

**BOS 720:2016 Sanitary appliances – Baths made from cross-linked cast acrylics sheets – Requirements and test methods**

**BOS 726:2017 Galvanized steel sheets (plain and corrugated) – Specification**  
Covers the requirements of plain and galvanized steel sheets and coils and corrugated galvanized sheets for roofing and cladding purposes.

ICS: 77.140.50

Price code: 10

Pages: 20

**BOS 730: 2016 Workmanship on building sites – Sitework with insitu and precast concrete – Code of practice**

**BOS 731: 2016 Workmanship on building sites – Mixing and transporting concrete – Code of practice**

**BOS 735:2016 Banana – Grading Requirements**

**BOS 738: 2016 Workmanship on building sites – Cementitious levelling screeds and wearing screeds – Code of practice**

**BOS 741: 2016 Cereals – Barley grains – Specification**

**BOS 742: 2016 Cashew kernels – Specification**

**BOS 763:2016 Pear – Grading Requirements**

**BOS 766:2016 Sweet Potato – Grading Requirements**

**BOS 780:2017 Redeposition index of laundry detergent**

**BOS 781:2017 Fluorescent whitening agent fluorescence emission of laundry Detergent**

**BOS 793:2016 Cosmetics - Terms and definitions**

**BOS CAC/RCP 1: 2003 Recommended International Code of Practice – General principles of food hygiene.**

This document follows the food chain from primary production to the final consumer, setting out the necessary hygiene conditions for producing food which is safe and suitable for consumption.

ICS: 67.020

Price Code: 14

Pages: 31

<b>BOS EN 132: 1999</b> pictograms	<b>Respiratory protective devices (RPD) – Definitions of terms and</b>
<b>BOS EN 133: 2001</b>	<b>Respiratory protective devices (RPD) – Classification</b>
<b>BOS EN 134: 1998</b> components	<b>Respiratory protective devices (RPD) – Nomenclature of</b>
<b>BOS EN 136: 1998</b>	<b>Respiratory protective devices (RPD) – Full face masks</b>
<b>BOS EN 142: 2002</b>	<b>Respiratory protective devices (RPD) – Mouthpiece assemblies</b>
<b>BOS EN 149: 2001+ A1: 2009</b> protect against particles	<b>Respiratory protective devices (RPD) – Filtering half masks to</b>
<b>BOS EN 196-1:2005</b>	<b>Methods of testing cement – Part 1: Determination of strength BOS</b>
<b>EN 196-2:2013</b>	<b>Methods of testing cement – Part 2: Chemical analysis of cement</b>
<b>BOS EN 196-3:2008</b> and soundness	<b>Methods of testing cement – Part 3: Determination of setting time</b>
<b>BOS EN 196-6:2010</b>	<b>Methods of testing cement – Part 3: Determination of fineness</b>
<b>BOS EN 197-2:2014</b>	<b>Cement – Part 2: Conformity evaluation</b>
<b>BOS EN 197-7:2007</b> preparing samples of cement	<b>Methods of testing cement – Part 7: Methods of taking and</b>
<b>BOS EN 402: 2003</b>	<b>Respiratory protective devices (RPD) – Lung governed demand self-</b>
<b>contained open-circuit compressed air breathing apparatus with full mask or mouthpiece</b> <b>assembly for escape</b>	<b>assembly for escape</b>
<b>BOS EN 403: 2004</b>	<b>Respiratory protective devices (RPD) – for self-rescue – Filtering</b>
<b>devices with hood for escape from fire</b>	<b>devices with hood for escape from fire</b>
<b>BOS EN 404: 2005 + A: 2009</b>	<b>Respiratory protective devices (RPD) – for self-rescue – Filter</b>
<b>self-rescuer from carbon monoxide assembly</b>	<b>self-rescuer from carbon monoxide assembly</b>
<b>BOS EN 405: 2001 + A: 2009</b>	<b>Respiratory protective devices (RPD) – Valved filtering half-</b>
<b>masks to protect against gases and particles</b>	<b>masks to protect against gases and particles</b>
<b>BOS EN 529: 2005</b>	<b>Respiratory protective devices (RPD) – Recommendations for</b>
<b>selection, use, care, and maintenance</b>	<b>selection, use, care, and maintenance</b>
<b>BOS EN 998-1:2010</b> plastering mortar	<b>Specification for mortar for masonry – Part 1: Rendering and</b>
<b>BOS EN 998-2:2010</b>	<b>Specification for mortar for masonry – Part 2: Masonry mortar</b>
<b>BOS EN 1129-1:1995</b> Part 1: Safety requirements	<b>Furniture – Foldaway beds – Safety requirements and testing –</b>
<b>BOS EN 1129-2:1995</b> Part 2: Test requirements	<b>Furniture – Foldaway beds – Safety requirements and testing –</b>
<b>BOS EN 1725:1998</b> and test methods	<b>Domestic furniture – Beds and mattresses – Safety requirements</b>

**BOS EN 1827: 1999 + A1: 2009** Respiratory protective devices (RPD) – Half masks without inhalation valves and with separable filters to protect against gases and particles or particles only

**BOS EN 12199: 1998 Resilient floor coverings – Specifications for homogenous and heterogeneous relief rubber floor coverings**

Characteristics of homogeneous and heterogeneous relief or studied rubber floor coverings, supplied in either tile or roll form.

ICS: 97.150

Price code: 6

Pages: 12

**BOS EN 13759:2012 Furniture – Operating mechanisms for seating and sofa-beds – Test methods**

**BOS EN 13794: 2002 Respiratory protective devices (RPD) – Self-contained closed circuit breathing apparatus for escape**

**BOS EN 14387: 2004 +A1: 2008 Respiratory protective devices (RPD) – Gas filter(s) and combined filter(s)**

**BOS EN 197-1: 2000 see page 109**



## IEC STANDARDS

**IEC 61439-0:2013**                      **Low-voltage switchgear and controlgear assemblies – Part 0: Guidance to specifying assemblies**

**IEC 61439-1:2012**                      **Low-voltage switchgear and controlgear assemblies – Part 1: General rules**

**IEC 61439-2: 2011**                      **Low-voltage switchgear and controlgear assemblies – Part 2 Power switchgear and controlgear**

**IEC 61439-3: 2012**                      **Low-voltage switchgear and controlgear assemblies – Part 3 Distribution boards intended to be operated by ordinary persons (DBO)**

**IEC 61439-4: 2012**                      **Low-voltage switchgear and controlgear assemblies – Part 4 Particular requirements for assemblies for construction sites (ACS)**

**IEC 61439-5: 2014**                      **Low-voltage switchgear and controlgear assemblies – Part 5 Assemblies for power distribution in public networks**

**IEC 61439-6: 2012**                      **Low-voltage switchgear and controlgear assemblies – Part 6 Assemblies for power distribution in public networks**

**IEC TS 61439-7: 2014**                      **Low-voltage switchgear and controlgear assemblies – Part 7 Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations**

**IEC 62253:2011**                      **Photovoltaic pumping systems – Design qualification and performance measurements**

**IEC 60335-2-2:2012, Household and similar electrical appliances – Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliance**

This International Standard deals with the safety of electric vacuum cleaners and water-suction cleaning appliances for household and similar purposes, including vacuum cleaners for animal grooming, their rated voltage being not more than 250 V. It also applies to centrally-sited vacuum cleaners and automatic battery-powered cleaners.

This standard also applies to motorized cleaning heads and current-carrying hoses associated with a particular vacuum cleaner.

Appliances not intended for normal household use, but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops and other premises for normal housekeeping purposes, are within the scope of this standard.

NOTE 101 – Examples of such appliances are appliances intended to be used for normal housekeeping purposes in hotels, offices, schools, hospitals and similar premises.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account -persons (including children) whose

- physical, sensory or mental capabilities; or

- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;  
-children playing with the appliance

NOTE 102 Attention is drawn to the fact that

-for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

-in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the natural water supply authorities and similar authorities.

NOTE 103 This standard does not apply to

-appliances intended exclusively for industrial purposes;

-appliances intended to be used in locations where special conditions prevail, such as presence of a corrosive or explosive atmosphere (dust, vapour or gas);

-wet and dry vacuum cleaners, including power brush, for commercial use (IEC 60335-2-69).

### **IEC 60335-2-3:2012, Household and similar electrical appliances – Safety - Part 2-3: Particular requirements for electric irons**

This International Standard deals with the safety of electric dry irons and steam irons, including those with a separate water reservoir or boiler having a capacity not exceeding 5 L, for household and similar purposes, their rated voltage being not more than 250 V.

Appliances not intended for normal use, but which nevertheless may be source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances, which are encountered by all persons in and around the home. However, in general, it does not take into account

-persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;

-children playing with the appliance.

NOTE 101 Attention is drawn to the fact that

-for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

-in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

-additional requirements for pressure vessels may be specified by the national authorities responsible for safety of pressure vessels.

NOTE 102 This standard does not apply to

-ironers (IEC 60335-2-44);

-appliances designed exclusively for industrial purposes;

-appliances intended to be used in location where special conditions prevail, such as presence of a corrosive or explosive atmosphere (dust, vapour or gas).

### **IEC 60335-2-7:2012, Household and similar electrical appliances – Safety - Part 2-7: Particular requirements for washing machines**

This International Standard deals with the safety of electric washing machines for household and similar use, that are intended for washing clothes and textiles, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

This standard also deals with the safety of electric washing machines for household and similar use employing an electrolyte instead of detergent. Additional requirements for these appliances are given in Annex CC.

NOTE 101 Guidance is given in Annex DD for requirements that may be used to ensure an acceptable level of protection against electrical and thermal hazards for washing machines fitted with a power driven wringer.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

NOTE 102 Examples of such appliances are washing machines for commercial use in blocks of flats or in launderettes.

As far as is practicable, this standard deals with the common hazards presented by washing machines that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;

-children playing with the appliance.

NOTE 103 Attention is drawn to the fact that

-for washing machines intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

NOTE 104 This standard does not apply to

-washing machines intended exclusively for industrial purposes (ISO 10472-2);

-appliances intended to be used in locations where special conditions prevail, such as the presence of corrosive or explosive atmosphere (dust, vapour or gas).

### **IEC 60335-2-13:2009, Household and similar electrical appliances – Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances**

This International Standard deals with the safety of electric deep fat fryers having a recommended maximum quantity of oil not exceeding 5 L, frying pans, woks and other appliances in which oil is used for cooking, and intended for household use and similar use, their rated voltage being not more than 250 V.

Appliances intended for normal household and similar use and that may also be used by laymen in shops, in light industry and on farms are within scope of this standard. However, if the appliance is intended to be used professionally to process food for commercial consumption, the appliance is not considered to be for household and similar use only.

- persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;

-children playing with the appliance.

NOTE 101 Attention is drawn to the fact that

-for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 102 This standard does not apply to

-deep fat fryers for commercial use (IEC 60335-2-37);

-commercial multi-purpose cooking pans (IEC 60335-2-39);

-appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour and gas).

### **IEC 60335-2-14:2012, Household and similar electrical appliances – Safety - Part 2-14: Particular requirements for kitchen machines**

This International Standard deals with the safety of electric kitchen machines for household and similar purposes, their rated voltage being not more than 250 V.

NOTE 101 Examples of appliances within the scope of this standard are

-bean slicers;

-berry-juice extractors;

-blenders;

-can openers;

-centrifugal juicers;

-churns;

-citrus-fruit squeezers;

-coffee-mills not exceeding 500 g hopper capacity;

-cream whippers;

- egg beaters;
- food mixers;
- food processors;
- grain grinders not exceeding 3 l hopper capacity;
- graters;
- ice-cream machines, including those for use in refrigerators and freezers;
- knife sharpeners;
- knives
- mincers;
- noodle makers;
- potato peelers;
- shredders;
- slicing machines;
- slicing machines.

Appliances intended for normal household and similar use and that may also be used by laymen in shops, in light industry and on farms are within scope of this standard. However, if the appliance is intended to be used professionally to process food for commercial consumption, the appliance is not considered to be for household and similar use only.

NOTE 102 Use of a kitchen machine in a bed and breakfast premises, for example, is considered to be household use.

As far as practicable, this standard deals with the common hazards presented by appliances which are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;

-children playing with the appliance.

NOTE 103 Attention is drawn to the fact that

-for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 104 This standard does not apply to

-slicing machines having a circular knife the blade of which is inclined at an angle exceeding 45° to the vertical;

-food waste disposers (IEC 60335-2-16);

-ice-cream appliances with incorporated motor compressors (IEC 60335-2-24);

-kitchen machines intended for commercial purposes (IEC 60335-2-64

-kitchen machines intended for industrial purposes;

-kitchen machines intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour and gas).

### **IEC 60335-2-24:2012, Household and similar electrical appliances – Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers**

This International Standard deals with the safety of the following appliances, their rated voltage being not more than 250 V for single-phase appliances, 480 V for other appliances and 24 V d.c. for appliances when battery operated.

- refrigerating appliances for household and similar use;

- ice-makers incorporating a motor-compressor and ice-makers intended to be incorporated in frozen food storage compartments;

- refrigerating appliances and ice-makers for use in camping, touring caravans and boats for leisure purposes.

These appliances may be operated from the mains, from a separate battery or operated either from the mains or from a separate battery.

This standard also deals with the safety of ice-cream appliances intended for household use, their rated voltage being not more than 250 V for single-phase and 480 V for other appliances.

It also deals with compression-type appliances for household and similar use, which use flammable refrigerants.

This standard does not cover features of the construction and operation of those refrigerating appliances which are dealt with in other IEC standards.

Refrigerating appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as

- refrigerating appliances used in staff kitchen areas in shops, offices and other working environments,
- refrigerating appliances used in farm houses and by clients in hotels, motels and other residential type environments.

- refrigerating appliances used in bed and breakfast type environments, and
- refrigerating appliances used in catering and similar non-retail applications

are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;

- children playing with the appliance. NOTE

1 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

NOTE 2 This standard does not apply to

- appliances intended to be used in the open air;
- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations, where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- appliances incorporating a battery intended as a power supply for the refrigerating function;
- appliances assembled on site by the installer;
- appliances with remote motor-compressors;
- motor-compressors (IEC 60335-2-34);
- commercial dispensing appliances and vending appliances (IEC 60335-2-75);
- commercial refrigerators and freezers used for the display of food products, including beverages, for retail sale (IEC 60335-2-89);
- commercial ice-cream appliances.

### **IEC 60335-2-25:2010, Household and similar electrical appliances – Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens**

This International Standard deals with the safety of microwave ovens for household and similar use, their rated voltage being not more than 250 V.

This Standard also deals with combination microwave ovens, for which Annex AA is applicable.

This Standard also deals with microwave ovens intended to be used on boardships, for which Annex BB is applicable.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by layman in shops, in light industry and on farms, are within the scope of this standard. However, if the standard is intended to be used professionally to process food for commercial purposes, the appliance is not considered to be for household and similar use only.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction

- children playing with the appliance.

NOTE 101 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary:

- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 102 This standard does not apply to

- commercial microwave ovens (IEC 60335-2-90)
- industrial microwave heating equipment (IEC 60519-6)
- appliances for medical purposes (IEC 60601)
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive and explosive atmosphere (dust, vapour or gas).

### **IEC 60335-2-30:2009, Household and similar electrical appliances – Safety - Part 2-30: Particular requirements for room heaters**

This International Standard deals with the safety of electric room heaters for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

NOTE 101 Examples of appliances that are within the scope the scope of this standard are

- convector heaters;
- fan heaters;
- liquid-filled radiators;
- panel heaters;
- radiant heaters;
- tubular heaters;
- ceiling mounted heat lamp appliances.

For extraction fans of ceiling mounted heat lamp appliances, IEC 60335-2-80 is applicable as far as is reasonable.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by layman in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction

- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

- for appliances intended to be used in the presence of combustible dust, for example in barns or stables, additional requirements may be necessary.

NOTE 103 This standard does not apply to

- appliances intended exclusively for industrial purposes;
- appliances intended to be used where special conditions prevail, such as the presence of corrosive or explosive atmosphere (dust, vapour or gas);
- heaters that are built into air conditioners (IEC 60335-2-40);
- clothes dryers and towel rails (IEC 60335-2-43);
- heaters for saunas (IEC 60335-2-53);
- thermal-storage room heaters (IEC 60335-2-61);
- heating appliances for breeding and rearing animals (IEC 60335-2-71);
- foot warmers and heating mats (IEC 60335-2-81);
- flexible sheet heating elements for room heating (IEC 60335-2-96);
- heated carpets;
- central heating systems;

- heating cables (IEC 60800).

**IEC 60335-2-35:2012, Household and similar electrical appliances – Safety - Part 2-35: Particular requirements for instantaneous water heaters**

This International Standard deals with the safety of electric instantaneous water heaters for household and similar purposes and intended for heating water below boiling temperature, their rated voltage being not more than 250 V for single-phase appliance and 480 V for other appliances.

NOTE 101 Instantaneous water heaters incorporating bare heating elements are within the scope of the standard.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction

- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries, additional requirements are specified by the national health authorities, national authorities responsible for the protection of labour and similar authorities;

- in many countries regulations exist for the installation of equipment connected to the water mains.

NOTE 103 This standard does not apply to

- appliances for heating liquids (IEC 60335-2-15);

- storage water heaters (IEC 60335-2-21);

- appliances intended exclusively for industrial purposes;

- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);

- commercial dispensing appliances and vending machines (IEC 60335-2-75).

**IEC 60335-2-80:2008, Household and similar electrical appliances – Safety - Part 2-80: Particular requirements for fans**

This International Standard deals with the safety of electric fans for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

NOTE 101 Examples of fans that are within the scope of this standard are

- ceiling fans;
- duct fans;
- partition fans;
- pedestal fans;
- table fans.

This standard also applies to separate controls supplied with fans

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction

- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

NOTE 103 This standard does not apply to

- appliances intended exclusively for industrial purposes;

- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);

- fans incorporated in other appliances

### **IEC 60335-2-91:2008, Household and similar electrical appliances – Safety - Part 2-91: Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers**

This International Standard deals with the safety of electric powered walk-behind and hand-held lawn trimmers and lawn edge trimmers, with cutting element(s) of non-metallic filament line or freely pivoting non-metallic cutter(s), with a kinetic energy of not more than 10 J each, used by a standing operator for cutting grass, their rated voltage not being not more than 250 V for a.c. or 50 V d.c.

In this standard, hand-held and walk-behind lawn trimmers and lawn edge trimmers are referred to collectively as trimmer(s).

So far as is practicable, this standard deals with the common hazards presented by trimmers which are encountered by all persons in the normal use and reasonably foreseeable misuse of the trimmers.

NOTE 101 Attention is drawn to the fact that in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities.

This standard does not apply to

- scissor type or lawn trimmers and lawn edge trimmers with cutting means other than those described above;

- self-propelled lawn trimmers or lawn edge trimmers;

- lawn trimmers or lawn edge trimmers which do not have a distance of at least 600 mm between the cutting means control and the cutting head;

- battery-powered trimmers fitted with batteries that have to be removed for charging.

NOTE 102 Requirements for tools with this type of battery can be found in Annexes K and L of IEC 60745-1.

EMC and environmental aspects, except noise, have not been considered in this standard.

NOTE 103 The method of calculating the kinetic energy for the purposes of this standard is given in 22.103.

### **IEC 60745-2-1:2008, Hand-held motor-operated electric tools – Safety – Part 2-1: Particular requirements for drills and impact drills**

This part of IEC 60745 deals with the safety of hand-held motor-operated or magnetically driven electric 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.

So far as is practicable, this standard deals with the common hazards presented by hand-held tools which are encountered by all persons in the normal use and reasonably foreseeable misuse of the tools.



Tools with an electric heating element are within the scope of this standard. They should also comply with relevant parts of IEC 60335.

Requirements for motors not isolated from the supply, and having basic insulation not designed for the rated voltage of the tools, are given in Annex B. Requirements for rechargeable battery-powered motor-operated or magnetically driven tools and the battery packs for such tools are given in Annex K. Those for such tools that are also operated and/or charged directly from the mains or a non-isolated source are given in Annex L.

Handheld electric tools, hereinafter referred to as tools, which can be mounted on a support or working stand for use as fixed tools without any alteration of the tool itself, are within the scope of this standard. Requirements for such supports or working stands are given in Annex M.

This standard does not apply to:

- hand-held tools intended to be used in the presences of explosive atmosphere (dust, vapour or gas);
- hand-held tools used for preparing and processing food;
- hand-held tools for medical purposes (IEC 60601);
- hand-held tools which are covered by IEC 60335-2-45.

For hand-held tools intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary.

For hand-held tools intended to be used in tropical countries, special requirements may be necessary. NOTE Attention is drawn to the fact that in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities, etc.

This standard applies to drills and impact drills.

### **IEC 60947-3:2012, Low-voltage switchgear and controlgear –Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units**

This part of IEC 60947 applies to switches, disconnectors, switch-disconnectors and fuse-combination units to be used in distribution circuits and motor circuits of which the rated voltage does not exceed 1 000 V a.c. or 1 500 V d.c.

The manufacturer shall specify the type, ratings and characteristics according to the relevant standard of any incorporated fuses.

This part does not apply to equipment coming within the scope of IEC 60947-2, IEC 60947-4-1 and IEC 60947-5-1; however, when switches and fuse-combination units coming into the scope of this part are normally used to start, accelerate and/or stop an individual motor they shall also comply with the additional requirements given in Annex A.

The requirements for single pole operated three pole switches are included in Annex C.

Auxiliary switches fitted to equipment within the scope of this part shall comply with the requirements of IEC 60947-5-1.

This part does not include the additional requirements necessary for electrical apparatus for explosive gas atmospheres.

NOTE 1 Depending on its design, a switch (or disconnector) can be referred to as “a rotary switch (disconnector)”, “cam-operated switch (disconnector)”, “knife-switch (disconnector)”, etc.

NOTE 2 In this part, the word “switch” also applies to the apparatus referred to in French as “commutateurs”, intended to modify the connections between several circuits and inter alia to substitute a part of a circuit for another.

NOTE 3 In general, throughout this part switches, disconnectors, switch-disconnectors and fuse-combination units will be referred to as “equipment”.

The object of this part is to state

- a) the characteristics of the equipment;
- b) the conditions with which the equipment shall comply with reference to
  - 1) operation and behaviour in normal service;
  - 2) operation and behaviour in case of specified abnormal conditions, e.g. short circuit;
  - 3) dielectric properties;
- c) the tests for confirming that these conditions have been met and the methods to be adopted for these tests;
- d) the information to be marked on the equipment or made available by the manufacturer, e.g. in the catalogue.

### **IEC 60947-2:2013, Low-voltage switchgear and controlgear – Part 2: Circuit-breakers**

This standard 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 internally fused circuit-breakers.

It applies whatever the rated currents, the method of construction or the proposed applications of the circuit-breakers may be.

The requirements for circuit-breakers which are also intended to provide earth-leakage protection are contained in Annex B.

The additional requirements for circuit-breakers with electronic over-current protection are contained in Annex F.

The additional requirements for circuit-breakers for IT systems are contained in Annex H.

The requirements and test methods for electromagnetic compatibility of circuit-breakers are contained in Annex J.

The requirements for circuit-breakers not fulfilling the requirements for over-current protection are contained in Annex L.

The requirements for modular residual current devices (without integral current breaking device) are contained in Annex M.

The requirements and test methods for electromagnetic compatibility of circuit-breaker auxiliaries are contained in Annex N.

Supplementary requirements for circuit-breakers for the protection of wiring installations in buildings and similar applications, and designed for use by uninstructed persons, are contained in IEC 60898.

The requirements for circuit-breakers for equipment (for example electrical appliances) are contained in IEC 60934.

For certain specific applications (for example traction, rolling mills, marine service) particular or additional requirements may be necessary.

NOTE - Circuit-breakers which are dealt with in this standard may be provided with devices for automatic opening under predetermined conditions other than those of over-current and under voltage as, for example, reversal of power or current. This standard does not deal with the verification of operation under such pre-determined conditions.

The object of this standard is to state:

- a) the characteristics of circuit-breakers;
- b) the condition with which circuit-breakers shall comply with reference to:
  - 1) operation and behaviour in normal service;
  - 2) operation and behaviour in case of overload and operation and behaviour in case of short-circuit, including co-ordination in service (discrimination and back-up protection);
  - 3) dielectric properties;
- c) tests intended for confirming that these conditions have been met and the methods to be adopted for these tests;
- d) information to be marked on or given with the apparatus.

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### **IEC 60335-2-6:2014, Household and similar electrical appliances – Safety - Part 2-6: Particular requirements for stationary cooking**

This International Standard deals with the safety of stationary electric ranges, hobs, ovens, and similar appliances for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

This International Standard also includes some requirements for ovens that are intended to be used on board ships.

NOTE 101 Examples of appliances that are within the scope of this standard are

- griddles;
- grills;
- induction hobs;
- induction wok elements
- pyrolytic self-cleaning ovens;
- steam ovens

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction

- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

NOTE 103 This standard does not apply to

- appliances intended for commercial catering;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- grills, toasters and similar portable cooking appliances (IEC 60335-2-9);
- microwave ovens (IEC 60335-2-25).

### **IEC 60335-2-9:2012, Household and similar electrical appliances – Safety - Part 2-9: Particular requirements for fans**

This International Standard deals with the safety of electric portable appliances for household and similar purposes that have a cooking function such as baking, roasting and grilling, their rated voltage being not more than 250 V.

NOTE 101 Examples of appliances that are within the scope of this standard are

- barbecues for indoor use;
- breadmakers;
- candy floss appliances;
- contact grills (griddles);
- cooker;
- food dehydrators;
- hotplates;
- induction wok hotplates;
- pop-corn makers;
- portable ovens;
- raclette grills;
- radiant grills;
- roasters;
- rotary grills;
- rotisseries

- toasters
- waffle irons

Examples are illustrated in Figure 101

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

However, if the standard is intended to be used professionally to process food for commercial purposes, the appliance is not considered to be for household and similar use only.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction

- children playing with the appliance

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

NOTE 103 This standard does not apply to

- stationary ovens and stationary grills (IEC 60335-2-6);
- warming plates (IEC 60335-2-12);
- frying pans and deep fat fryers (IEC 60335-2-13);
- microwave ovens (IEC 60335-2-25);
- barbecues for outdoor use (IEC 60335-2-78);
- appliances intended to burn charcoal or similar combustible fuels;
- appliances intended for commercial catering;
- appliances intended to be used in locations, where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

### **IEC 60335-2-40:2013, Household and similar electrical appliances – Safety - Part 2-40: Particular requirements for fans**

This part of IEC 60335 deals with the safety of electric heat pumps, including sanitary hot water heat pumps, air conditioners and dehumidifiers incorporating motor-compressors and hydronic room fan coils, their maximum rated voltages being not more than 250 V for single phase appliances and 600 V for all other appliances.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

This standard also applies to electric heat pumps, air conditioners and dehumidifiers containing flammable refrigerant. Flammable refrigerants are defined in 3.121.

The appliances referenced above may consist of one or more factory made assemblies. If provided in more than one assembly, the separate assemblies are to be used together, and the requirements are based on the use of matched assemblies.

NOTE 101 A definition of 'motor compressor' is given in IEC 60335-2-34, which includes the statement that the term motor-compressor is used to designate either a hermetic motor-compressor or semi-hermetic motor-compressor.

NOTE 102 Requirements for refrigeration safety are covered by ISO 5149, and requirements for containers intended for storage of the heated water included in sanitary hot water heat pumps are, in addition covered by IEC 60335-2-21.

This standard does not take into account chemicals other than group A1, A2, or A3 as defined by ANSI/ASHRAE [ISO] classification.

This standard specifies particular requirements for the use of flammable refrigerants. Unless specifications are covered by this standard, including the annexes, requirements for refrigerating safety are covered by ISO 5149.

The sections and clauses in ISO 5149 of particular concern to this standard are as follows:

- Section 3: "Design and construction equipment" applies to all appliances and systems.
- Section 4: "Requirements for utilization" applies to appliances and systems which are for "similar electric appliances", i.e. commercial and light industrial.
- Section 5: "Operating procedures" applies to appliances and systems which are for "similar electric appliances", i.e. commercial and light industrial.

Supplementary heaters, or a provision for their separate installation, are within the scope of this standard, but only heaters which are designed as a part of the appliance package, the controls being incorporated in the appliance.

NOTE 103 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- for appliances subjected to pressure, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities responsible for the protection of labour and national authorities responsible for storage, transportation, building constructions and installations.

NOTE 104 This standard does not apply to

- humidifiers intended for use with heating and cooling equipment (IEC 60335-2-88);
- appliances designed exclusively for industrial processing;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

### **IEC 60335-2-73:2009, Household and similar electrical appliances – Safety - Part 2-73: Particular requirements for fans**

This International Standard deals with the safety of fixed electric immersion heaters for household and similar purposes that are intended for installation in a water tank open to the atmosphere for heating water to a temperature below its boiling point. The rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances.

NOTE 101 The water tank may have alternative means for heating water, such as circulation of hot water supplied from a separate boiler.

NOTE 102 Immersion heaters having a rated power input up to 25 kW for incorporation as an alternative heating source in central heating boilers are also within the scope of this standard.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction

- children playing with the appliance.

NOTE 103 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

NOTE 104 This standard does not apply to

- appliances designed exclusively for industrial purposes;
  - appliances intended to be used in locations, where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
  - heating elements incorporated in appliances such as
    - appliances for heating liquids (IEC 60335-2-15);
    - storage water heaters (IEC 60335-2-21);
    - instantaneous water heaters (IEC 60335-2-35);
  - aquarium heaters (IEC 60335-2-55);
  - portable immersion heaters (IEC 60335-2-74);
  - engine preheaters such as those for cars and buses.
- Number of pages: 12

**IEC 60118-7: 1983 Hearing aids – Part 7: Measurement of the performance characteristics of hearing aids for quality inspection for delivery purposes**

Gives recommendations for the measurement of performance characteristics of air-conduction hearing aids of a particular model for the purpose of comparing measured properties with those specified by the manufacturer. Describes practical reproducible methods for determining the compliance of a limited number of electroacoustical and electrical characteristics of delivered hearing aids with nominal performance data supplied by the manufacturer.

ICS: 17.140.50

Price code: 16

Pages: 36

**IEC 60227-2: Ed. 2.1: 2003 Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 2: Test methods.**

The methods of carrying out the tests specified in all parts of IEC 60227 are given in this part and in IEC 60332-1, 60811 and 60885.

ICS: 29.060.20

Price code: 12

Pages: 24

**IEC 60227-3: Ed. 2.1: 1997 Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part3: Non-sheathed cables for fixed wiring.**

Specifications for polyvinyl chloride insulated single-core non-sheathed cables for fixed wiring of rated voltages up to and including 450/750 V. This is a consolidated version of IEC 60227-3 (1993) and its Amendment 1 (1997).

ICS: 29.060.20

Price code: 13

Pages: 28

**IEC 60335-2-6 Ed 5.1: 2005 Household and similar electrical appliances – Safety – Part 2-6: Particulars requirements for stationary cooking ranges, hobs, ovens and similar appliances.**

Applicable to the safety of stationary electric cooking ranges, hobs, ovens and similar appliances, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

ICS: 97.040.20, 13.120

Price code: 18

Pages: 46

**IEC 60335-2-7 Ed 6.1: 2004 Household and similar electrical appliances – Safety – Part 2-7: Particulars requirements for washing machines.**

Deals with the safety of electric washing machines for household and similar purposes, intended for washing clothes and textiles. The rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances. It includes washing machines for communal use in blocks of flats and in laundrettes. Washing machines with a spin extraction function must comply with IEC 60335-2-4, and with a drying function must comply with IEC 60335-2-11.

ICS: 97.060, 13.120

Price code: 14

Pages: 32

**IEC 60335-2-10: 2008 Household and similar electrical appliances – Safety – Part 2-10: Particular requirement for floor treatment machines and wet scrubbing machines.**

This International Standard deals with the safety of electric floor treatment and wet scrubbing machines intended for household and similar purposes, their rated voltage being not more than 250 V

ICS: 77.080.10

Price code: 9

Pages: 18

**IEC 60335-2-43: 2008 Household and similar electrical appliances – Safety – Part 2-43: Particular requirement for clothes dryers and towel rails**

This International Standard deals with the safety of electric clothes dryers for drying textiles on racks located in a warm airflow and to electric towel rails, for household and similar purposes, their rated voltage being not more than 250 V.

ICS: 77.080.10

Price code: 10

Pages: 20

**IEC 60335-2-52: 2008 Household and similar electrical appliances – Safety – Part 2-52: Particular requirement for oral hygiene appliances**

This International Standard deals with the safety of electric oral hygiene appliances for household and similar purposes, their rated voltage being not more than 250 V. Examples of appliances covered in this standard include oral irrigators and toothbrushes.

ICS: 77.080.10

Price code: 9

Pages: 18

**IEC 60335-2-55: 2008 Household and similar electrical appliances – Safety – Part 2-55: Particular requirement for surface cleaning appliances for electrical appliances for use with aquariums and garden ponds**

This International Standard deals with the safety of electric appliances for use with aquariums and garden ponds for household and similar purposes, their rated voltage being not more than 250 V. Examples of appliances covered in this standard include aerators, aquarium heaters, automatic food dispensers and sludge suction appliances.

ICS: 77.080.10

Price code: 10

Pages: 20

**IEC 60335-2-65: 2008 Household and similar electrical appliances – Safety – Part 2-65: Particular requirement for air cleaning appliances**

This International Standard deals with the safety of electric **air cleaning appliances** for household and similar purposes, their rated voltage being not more than 250 V for a single phase appliances and 480V for other appliances.

Appliances not intended for normal household use but that nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

As far as it is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account persons (including children) whose

- Physical, sensory or mental capabilities; or
- Lack of experience and knowledge

Prevents them from using the appliance safely without supervision or instruction; children playing with the appliance.

ICS: 77.080.10

Price code: 10

Pages: 20

**IEC 60598-1- Ed. 6.0: 2014 Luminaires - Part 1: General requirements and tests**

This Part 1 of International Standard IEC 60598 specifies general requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1 000 V. The requirements and related tests of this standard cover: classification, marking, mechanical construction and electrical construction.

ICS: 29.140.40

Price code: 25

Pages: 374

**IEC 60598-2-1: 1979 Luminaires – Part 2: Particular requirements – Section One – Fixed general purpose luminaires**

Specifies requirements for fixed general purpose luminaires for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

ICS: 29.140.40

Price code: 8

Pages: 16

**IEC 60598-2-5: 1998 Luminaires – Part 2-5: Particular requirements – Floodlights**

This part of IEC 60598 specifies requirements for floodlights for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V. It is to be read in conjunction with those sections of IEC 60598-1 to which reference is made.

ICS: 29.140.40

Price code: 14

Pages: 30

**IEC 60598-2-6: 1994 Luminaires – Part 2: Particular requirements – Section 6: Luminaires with built-in transformers for filament lamps**

Specifies requirements for luminaires with built-in transformers for filament lamps, with supply voltages and output voltages not exceeding: 1 000 V for class I and class II luminaires and - 250 V for class 0 luminaires.

ICS: 29.140.40

Price code: 16

Pages: 40

**IEC 60598-2-7-Ed.1.0: 1982 Luminaires – Part 2: Particular requirements – Section Seven – Portable luminaires for garden use**

Specifies requirements for portable pedestal luminaires for use in places such as gardens and for portable luminaires for use in places such as flower beds, for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 250 V.

ICS: 29.140.40

Price code: 12

Pages: 26

**IEC 60598-2-8:2013-Consol. Ed. 2.1 (incl. am1) Luminaires – Part 2-8: Particular requirements – Hand lamps**

Specifies requirements for hand lamps and similar portable luminaires which are held in the hand when used, for use with tungsten filament and tubular fluorescent lamps on supply voltages not exceeding 250 V.

ICS: 29.140.40

Price code: 15

Pages: 34

**IEC 60598-2-9: 1987 – Ed.2.0 Luminaires – Part 2: Particular requirements – Section Nine – Photo and film luminaires (non-professional)**

Specifies requirements for photo and film luminaires (non-professional) for use with low-pressure tungsten halogen lamps, specified in IEC 60357.

ICS: 29.140.40

Price code: 15

Pages: 34

**IEC 60598-2-10: 2003 Luminaires – Part 2: Particular requirements – Section Ten – Potable child-appealing luminaires**

Specifies requirements for portable child-appealing luminaires for use with tungsten filament lamps on supply voltages not exceeding 24 V (SELV).

ICS: 29.140.40

Price code: 12

Pages: 26

**IEC 60598-2-17: 1984 Luminaires – Part 2: Particular requirements – Section Seventeen – Luminaires for stage lighting, television and film studios (outdoor and indoor)**

Specifies requirements for stage, television and film studio luminaires (including spot and floodlighting projectors), for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

ICS: 29.140.40

Price code: 14

Pages: 30



**IEC 60598-2-18: 1993 Luminaires – Part 2: Particular requirements – Section 18: Luminaires for swimming pools and similar applications**

Specifies requirements for fixed luminaires intended for use in water, or in contact with water, for example in swimming pools, fountains, paddling pools, and garden pools, and for use with tungsten filament lamps.

ICS: 29.140.40

Price code: 9

Pages: 18

**IEC 60598-2-20: 2014 Luminaires – Part 2-20: Particular requirements – Lighting chains**

Specifies requirements for lighting chains fitted with series or parallel connected incandescent lamps for use indoors or outdoors on supply voltages not exceeding 250 V.

ICS: 29.140.40

Price code: 18

Pages: 48

**IEC 60598-2-22: 2002 Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting**

This section of IEC 60598-2 specifies requirements for emergency lighting luminaires for use with electrical light sources on emergency power supplies not exceeding 1 000 V.

ICS: 29.140.40

Price code: 19

Pages: 54

**IEC 60598-2-23: 2001 Luminaires – Part 2-23: Particular requirements – Extra low voltage lighting systems for filament lamps**

Specifies requirements for extra low voltage systems for filament lamps intended for ordinary use on supply voltages not exceeding 1 000 V. The luminaires, being connected in parallel, are supplied via freely suspended continuous supporting conductors or profiles. The current in the output circuit of the system is limited to 25 A.

ICS: 29.140.40

Price code: 13

Pages: 28

**IEC 60598-2-24: 1997 Luminaires – Part 2-24: Particular requirements – Luminaires with limited surface temperatures**

Specifies requirements for luminaires intended for use where the necessity of limited temperature on the outer surface exists, due to the risk of combustible dust accumulating on the luminaires, but where the risk of explosion in the atmosphere does not exist. The luminaires are for use with electric light sources on supply voltages not exceeding 1000 V.

ICS: 29.140.40

Price code: 13

Pages: 28

**IEC 60896-11: 2002 Stationary lead-acid batteries – Part 11: Vented types – General requirements and method test.**

This part of IEC 60896 is applicable to lead-acid cells and batteries which are designed for service in fixed locations (i.e. not habitually to be moved from place to place) and which are permanently connected to the load and to the d.c. power supply. Batteries operating in such applications are called "stationary batteries".

ICS: 29.220.20

Price code: 13

Pages: 28

**IEC 60896-21: 2002 Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test.**

This part of IEC 60896 applies to all stationary lead-acid cells and monobloc batteries of the valve regulated type for float charge applications, (i.e. permanently connected to a load and to a d.c. power supply), in a static location (i.e. not generally intended to be moved from place to place) and incorporated into stationary equipment or installed in battery rooms for use in telecom, uninterruptible power supply (UPS), utility switching, emergency power or similar applications. The objective of this part of IEC 60896 is to specify the methods of test for all types and construction of valve regulated stationary lead acid cells and monobloc batteries used in standby power applications

ICS: 29.220.20

Price code: 18

Pages: 48

**IEC 60896-22: 2004    Stationary lead-acid batteries – Part 22: Valve regulated types – Requirements**

This part of IEC 60896 applies to all stationary lead-acid cells and monobloc batteries of the valve regulated type for float charge applications, (i.e. permanently connected to a load and to a d.c. power supply), in a static location (i.e. not generally intended to be moved from place to place) and incorporated into stationary equipment or installed in battery rooms for use in telecom, uninterruptible power supply (UPS), utility switching, emergency power or similar applications. The objective of this part of IEC 60896 is to assist the specifier in the understanding of the purpose of each test contained within IEC 60896-21 and provide guidance on a suitable requirement that will result in the battery meeting the needs of a particular industry application and operational condition.

ICS: 29.220.20  
36

Price code: 16

Pages:

**IEC 61056-1: 2002    General purpose lead-acid batteries (Valve regulated types) – General requirements and functional characteristics – Methods of test.**

This part of IEC 61056 specifies the general requirements, functional characteristics and methods of test for all general purpose lead acid cells and batteries of the valve regulated type

- For either cyclic or float charge application
- In portable equipment, for instance, incorporated in tools, toys or in static emergency, or uninterruptible power supply and general power supplies

ICS: 29.220.20  
24

Price code: 12

Pages:

**IEC 61056-2: 2002    General purpose lead-acid (Valve regulated types) – Part 2: Dimensions, terminals and marking**

This part of IEC 61056 specifies the dimensions, terminals and marking for the general purpose lead- acid cells and batteries of the valve regulated type

- For either cyclic or float charge application
- In portable equipment, for instance, incorporated in tools, toys or in static emergency, or uninterruptible power supply and general power supplies

ICS: 29.220.20  
20

Price code: 10

Pages:

**BOS ISO 161-1: 1996 Thermoplastics pipes for the conveyance of fluids -- Nominal outside diameters and nominal pressures -- Part 1: Metric series**

Specifies the nominal outside diameters for metric thermoplastics pipes for the conveyance of fluids under pressure and non-pressure. It also specifies nominal pressure ratings and minimum required strengths for pipes for pressure

ICS: 23.040.20

Price code: 8

Pages: 16

**BOS ISO 384:2015 Laboratory glass and plastics ware — Principles of design and construction of volumetric instruments**

This International Standard sets out principles for the design of volumetric instruments manufactured from glass or from plastics in order to facilitate the most reliable and convenient use to the intended degree of accuracy.

ICS:  
17.060**BOS ISO 385:2005 Laboratory glassware — Burettes**

This International Standard provides metrological and construction requirements for an internationally acceptable series of burettes, suitable for general laboratory purposes.

The details specified are in accordance with the principles of design and construction of volumetric glassware given in ISO 384.

For piston burettes, see ISO 8655-3.

ICS: 17.060

**BOS ISO 648:2008 Laboratory glassware — Single-volume pipettes**

This International Standard specifies metrological and constructional requirements for volumetric pipettes with one mark (total delivery) and for volumetric pipettes with two marks, both of which are adequate for general laboratory purposes.

ICS: 17.060

**BOS ISO 707: 1997 Milk and milk products – Guidance on sampling**

Guidance on methods of sampling milk and milk products for microbiological, chemical, physical and sensory analysis except for sampling of ex-farm milk from individual animals and sampling of milk within quality payment schemes.

ICS: 67.100.01

Price code: 18

Pages: 48

**BOS ISO 730-1:1994 Agricultural wheeled tractors -- Rear-mounted three-point linkage -- Part 1: Categories 1, 2, 3 and 4**

Cancels and replaces the second edition (ISO 730-1 (1990) and ISO 730-3 (1982)). Describes the dimensions and requirements of the three-point linkage for the attachment of implements or equipment to the rear of agricultural wheeled tractors. Specifies four categories to be used on different ranges of agricultural tractors.

ICS: 65.060.10

Price code: 10

Pages: 20

**BOS ISO 730-2: 1979 Agricultural wheeled tractor – Rear-mounted three point linkage – Part 2: Category 1N (Narrow hitch)**

This International Standard specifies the requirements for the attachment of implements or equipment to the rear of narrow agricultural wheeled tractors by means of a three-link hitch in association with a power lift.

ICS: 65.060. 0

Price code: 6

Pages: 12

**BOS ISO 789-1: 1990**                      **Agricultural tractors -- Test procedures -- Part 1: Power tests for power take-off**

This part is the first of a series of eight. Specifies procedure for determining the power available at the power take-off, drawbar and belt pulley on tractors. Contains definitions and permissible measurement tolerances. Annex A includes a specimen test report. The measurement of tyre tread is given in annex B.

ICS: 65.060.10

Price code: 8

Pages: 16

**BOS ISO 789-2: 1993**                      **Agricultural tractors -- Test procedures -- Part 2: Rear three-point linkage lifting capacity**

Specifies test procedures for determining the lifting capacity of rear-mounted three-point linkage systems: a) the maximum vertical force which can be exerted by the hydraulic lift at the lower hitch points throughout their full range of movement; b) the maximum vertical force which can be exerted by the hydraulic lift, at a point 610 mm to the rear of the hitch points on a frame attached to the three-point linkage, throughout its full range of movement; c) optionally, the ability of the lifting system to maintain the load in the lifted position without hydraulic power.

ICS: 65.060.10

Price code: 6

Pages: 12

**BOS ISO 789-6: 1982**                      **Agricultural tractors -- Test procedures -- Part 6: Centre of gravity**

Specifies a simple, practical method, which requires the use of a weighbridge and crane. Alternative methods may be used if they locate the centre of gravity with respect to the specified reference planes and within the specified tolerances. The method is applicable to tractors having at least axles fitted with wheels or tracks. Three figures illustrate the determination in the different coordinates. An annex gives the specimen test report.

ICS: 65.060.10

Price code: 6

Pages: 12

**BOS ISO 835:2007**                      **Laboratory glassware — Graduated pipettes**

This International Standard specifies metrological and constructional requirements for graduated pipettes, adequate for general laboratory purposes.

The details specified are in conformity with the principles of design and construction of volumetric glassware given in ISO 384.

NOTE For one-mark pipettes, see ISO 648. For piston-operated pipettes, see ISO 8655-2.

17.060

**BOS ISO 874: 1980**                      **Fruits and vegetables – Sampling**

This International Standard specifies a method of sampling fresh fruits and vegetables, forming the subject of international trade, with view to determining the quality or particular characteristics of the goods.

ICS: 67.080

Price code: 4

Pages: 8

**BOS ISO 1000: 1992**                      **SI units and recommendations for the use of their multiples and of certain other units**

This International Standard

- describes the International System of units (in clauses 3, 4 and 6);
- recommends selected decimal multiples and sub-multiples of SI units for general use and gives certain other units which may be used with the International System of Units (in clauses 5 and 7, and Annex A);
- quotes the definitions of the SI base units (in annex B).

ICS: 01.060

Price code: 16

Pages: 38

**BOS ISO 1042:1998**                      **Laboratory glassware — One-mark volumetric flasks**

This International Standard specifies requirements for an internationally acceptable series of one-mark volumetric flasks, suitable for general laboratory purposes.

The specifications in this International Standard are in conformity with ISO 384 and with OIML

Recommendation No. 4.

ICS: 17.060

**BOS ISO 1072:1975 Solid wood parquet - General characteristics**

This International Standard specifies – the manufacturing characteristics (Cross-section, dimensions, permissible deviations, etc.), the inspection and delivery conditions and the marking of solid wood parquet Strips with rectangular face of any species of wood.

ICS: 79.080

**BOS ISO 1211: 1999 Milk – Determination of fat content – Gravimetric method (reference method)**

The reference method for the determination of the fat content of milk.

ICS 67.100.10

Price code: 10

Pages: 20

**BOS ISO 1324:1985 Solid wood parquet - Classification of oak Strips**

This International Standard establishes the classification, by quality, of non-assembled solid oak parquet Strips.

ICS: 79.080

**BOS ISO 1769:1975 Laboratory glassware - Pipettes - Colour coding**

This International Standard specifies a System of colour coding for one-mark pipettes for identification of nominal capacities, and for graduated pipettes for identification of nominal capacities and units of sub-division.

ICS: 17.060

**BOS ISO 1772:1975 Laboratory crucibles in porcelain and silica**

This International Standard specifies requirements for an internationally acceptable series of porcelain and silica crucibles and lids for general laboratory requirements.

ICS: 17.040.20

**BOS ISO 1920-1: 2004 Testing of concrete - Part 1: Sampling of fresh concrete**

This part of ISO 1920 specifies procedures for the sampling of fresh concrete. The samples are used for the testing of properties of fresh concrete, or for making test specimens to determine the properties of hardened concrete.

**Note:** ISO 1920-1 specifies the properties of fresh concrete and ISO 1920-3 gives the procedures for making and curing test specimens.

ICS 91.100.30

Price code: 8

Pages: 16

**BOS ISO 1920-2: 2005 Testing of concrete – Part 2 Properties of fresh concrete**

This part of ISO 1920 specifies procedures for testing fresh concrete. It specifies the following test methods: determination of consistence (slump test, Vebe test, degree of compatibility, flow-table test and for high-fluidity concrete, the slump-flow test), determination of fresh density and determination of air content by the pressure-gauge method and by the water-column method.

ICS 91.100.30

Price code: 22

Pages: 68

**BOS ISO 1920-3: 2004 Testing of concrete - Part 3: Making and curing test specimens**

This part of ISO 1920 specifies the shape and dimensions of concrete test specimens for strength tests and the methods of making and curing these test specimens.

ICS 91.100.30

Price code: 14

Pages: 32

**BOS ISO 1920-4: 2005 Testing of concrete - Part 4: Strength of hardened concrete**

This part of ISO 1920 specifies procedures for testing the strength of hardened concrete

ICS 91.100.30 Price code: 16 Pages: 36  
**BOS ISO 1920-5: 2004 Testing of concrete - Part 5: Properties of hardened concrete other than strength**

This part of ISO 1920 specifies procedures for testing properties of hardened concrete other than strength

ICS 91.100.30 Price code: 12 Pages: 24

**BOS ISO 1920-6: 2004 Testing of concrete - Part 6: Sampling, preparation and testing of concrete cores**

This part of ISO 1920 specifies a method for taking cores from hardened concrete, their examination, preparation for testing and determination of compressive strength. The part of ISO 1920 does not give guidance on the decision to drill cores or on the locations for drilling nor does it provide procedures for interpreting the core strength results.

**Note: It is recommended that before coring, full agreement should be reached by all parties on the need for core testing and how the results should be interpreted.**

ICS 91.100.30 Price code: 10 Pages: 20

**BOS ISO 1920-7: 2004 Testing of concrete Part 7: Non-destructive tests on hardened concrete**

This part of ISO 1920 specifies non-destructive test methods for use on hardened concrete

ICS 91.100.30 Price code: 16 Pages: 36

**BOS ISO 2457:1976 Solid wood parquet - Classification of beech Strips**

This International Standard establishes the classification, by quality, of non-assembled solid beech parquet Strips.

ICS: 79.080

**BOS ISO 2859-1: 1999 Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot – by – lot inspection**

Sampling system for inspection by attributes.

ICS: 03.120.30 Price code: 24 Pages: 88

**BOS ISO 2859-2: 1985 Sampling procedures for inspection by attributes – Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection**

LQ sampling plans and procedures for inspection by attributes compatible with ISO 2858/1 that can be used when the switching rules given in ISO 2859/1 are not applied.

ICS 03.120.30 Price code: 13 Pages: 28

**BOS ISO 2859-3: 1991 Sampling procedures for inspection by attributes – Part 3: Skip – lot sampling procedures**

Generic attribute skip-lot sampling procedures for reducing the inspection effort on products submitted by those suppliers who have demonstrated their ability to control, in an effective manner, all facets of quality and who consistently produce lots which meet requirements.

ICS: 03.120.30 Price code: 13 Pages: 28

**BOS ISO 2813:2014 Paints and Varnishes – Determination of gloss value at 20, 60 and 85**

This International Standard specifies a method for determining the gloss of coatings using the three geometries of 20°, 60° or 85°. The method is suitable for the gloss measurement of non-textured coatings on plane, opaque substrates.

NOTE On test specimens different from these mentioned above, comparative gloss measurements are possible. However, it is not ensured that the obtained gloss values correspond to the visual gloss perception (see Annex A).

ICS: 87.040

**BOS ISO 2928:2003 Rubber hoses and hose assemblies for liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas up to 25 bar (2,5 MPa) -- Specification**

ISO 2928:2003 specifies requirements for rubber hoses and rubber hose assemblies used for the transfer of liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas and designed for use at working pressures ranging from vacuum to a maximum of 25 bar (2,5 MPa) within the temperature range -30 °C to +70 °C or, for low-temperature hoses (designated -LT), within the temperature range -50 °C to +70 °C.

ICS: 23.040.70, 75.200

Price code: 10

Pages: 20

**BOS ISO 2959:2011 Textiles — Woven fabric descriptions**

This International Standard gives a number of characteristic parameters for woven fabrics and their constituents at various stages of manufacture and processing for the purpose of fabric designation. It is not intended that the list of parameters is exclusive and additional information can be given as required. It is applicable to all woven fabrics except textile floor coverings.

ICS: 59.080.30

**BOS ISO 3270:1984 Paints and Varnishes and their raw materials – Temperature and Humidity for conditioning and testing**

This International Standard specifies conditions of temperature and relative humidity for general use in the conditioning and testing of paints and varnishes and their raw materials. It is applicable to paints and varnishes in liquid or powder form, to wet or dry films, and their raw materials.

ICS: 87.040, 87.060.01

**BOS ISO 3572:1976 Textiles - Weaves - Definitions of general terms and basic Weaves**

This International Standard gives definitions of general terms for describing weaves, and defines the three basic weaves.

ICS: 59.080.30, 01.040.59

**BOS ISO 3585:1998 Borosilicate glass 3.3 — Properties**

This International Standard specifies the characteristics of a type of glass designated “borosilicate glass 3.3” used for the construction of laboratory glassware, glass plant, pipeline and fittings.

NOTE — Annex A lists related International Standards

ICS: 81.040.01

**BOS ISO 3819:2015 Laboratory glassware — Beakers**

This International Standard specifies requirements for an internationally acceptable series of glass beakers for laboratory use.

ICS: 17.060

**BOS ISO 4915: 1991 Textiles - Stitch types - Classification and terminology**

This International Standard classifies, designates, describes and illustrates the various kinds of stitch types used in hand and machine-sewn seams.

ICS: 59.080.01

**BOS ISO 4916: 1991 Textiles - Seam types - Classification and terminology**

This International Standard classifies, illustrates and designates, the various kinds of stitched seams. It is not intended to be fully comprehensive but to illustrate a number of the most used seam types. It is applicable to seams used most particularly in the clothing industry. All illustrations show the cross section of the material configuration only. This International Standard should be read in conjunction with ISO 4915.

ICS: 59.080.01

**BOS ISO 4921:2000 Knitting — Basic concepts — Vocabulary**

**This International Standard defines terms for basic knitting concepts.**

**The definitions of this vocabulary are complete in themselves; illustrations are used to clarify the content of a definition, but no standardization of any notational system is attempted.**

ICS: 59.020

**BOS ISO 3873: 1977 Industrial safety helmets**

Specifies physical and performance requirements, methods of test and marking requirements. The mandatory requirements apply to helmets for general use in industry. Additional optional performance requirements are included: Shock absorption, penetration, flammability, electrical insulation, and lateral rigidity.

ICS: 13.340.20

Price code: 8

Pages: 16

**BOS ISO 4064-1: 2005 Measurement of water flow in fully charged closed circuits – Meters for cold potable water and hot water – Part 1: Specifications**

This part of ISO 4064 specifies terminology, technical characteristics, metrological characteristics and pressure loss requirements for cold potable water and hot water meters. It applies to water metres that can withstand maximum admissible working pressures ( $MAP \geq 1 \text{ MPa}^1$ ) (0.6 MPa for meters for use with pipe nominal diameters,  $DN \geq 500\text{mm}$ ) and a maximum admissible temperature, MAT for cold potable water meters of  $30^\circ\text{C}$  and for hot water meters up to  $180^\circ\text{C}$ , depending on class.

ICS: 91.140.60

Price code: 19

Pages: 52

**BOS ISO 4074: 2002 Natural latex rubber condoms – Requirements and test methods**

This International Standard specifies the minimum requirements and the test methods to be used for condoms made from natural rubber latex which are supplied to consumers for contraceptives purposes and to assist in the prevention of sexually transmitted infections.

ICS: 11.200

Price code: 20

Pages: 56

**BOS ISO 4142:2002 Laboratory glassware – Test tubes**

Specifies a range of test tubes, suitable for general laboratory use, fabricated from borosilicate, neutral or soda/lime glass, which are designated Type I, Type II and Type III respectively.

ICS: 71.040.20

**BOS ISO 4788:2005 Laboratory glassware – Graduated measuring cylinders**

Specifies dimensions, material and constructional and metrological requirements of graduated measuring cylinders of tall form (Type 1a and Type 1b) and of squat form (Type 2). All types are suitable for general laboratory use.

The specifications in ISO 4788:2005 are in conformity with the principles of design and construction of volumetric glassware given in ISO 384.

ICS: 17.060

**BOS ISO 4791-1:1985 Laboratory apparatus – Vocabulary relating to apparatus made essentially from glass, porcelain or vitreous silica – Part 1: Names for items of apparatus**

This part of ISO 4791 lists the names of items of laboratory apparatus, made essentially from glass, porcelain or vitreous silica, together with items of equipment, made from other materials, which are commonly used in association with such apparatus.

A vocabulary of technical terms, with their definitions and applicable to the manufacture, adjustment and use of such laboratory apparatus, will be issued as Part 2.

The purpose of the vocabulary is to provide an aid to translators and readers of scientific literature. Because of the need to translate older documents, certain items of equipment now regarded as obsolete have been included.

NOTE — In addition to terms used in the three official ISO languages (English, French and Russian), this part of ISO 4791 gives the equivalent terms in German; these have been included at the request of Technical Committee ISO/TC 48 and are published under the responsibility of the member body for the



Federal Republic of Germany (DIN). However, only the terms given in the official languages can be considered as ISO terms.

ICS: 71.040.20

**BOS ISO 4793:1980                      Laboratory sintered (fritted) filters – Porosity grading, classification and designation**

Specifies a system of porosity grading, classifying and designating laboratory sintered (fritted) filters by the determination of pore size index.

It is applicable to laboratory filters made of glass, vitreous silica, ceramics, metals and plastic materials. Test methods are included in annexes B and C for the determination of air permeability and uniformity of pore size, but these characteristics do not form part of the requirements of this International Standard.

ICS: 71.040.20

**BOS ISO 4798:1997                      Laboratory glassware – Filter funnels**

This International Standard specifies requirements and dimensions for glass filter funnels suitable for general laboratory purposes, fitting together with other general-use glassware such as boiling flasks and volumetric flasks.

NOTE — Annex A lists additional International Standards for other general-purpose laboratory glassware.

ICS: 71.040.20

**BOS ISO 4799:1978                      Laboratory glassware – Condensers**

This International Standard specifies details for an internationally acceptable series of glass condensers suitable for general use in laboratories.

ICS: 71.040.20

**BOS ISO 5084:1996                      Textiles – Determination of thickness of textiles and textiles products**

Describes a method for the determination of the thickness of textiles and textile products under specified pressure. Not applicable to textile floor coverings, nonwovens, geotextiles and coated fabrics. replaces the first edition.

ICS: 59.080.30

**BOS ISO 5999:2013                      Flexible cellular polymeric materials – Polyurethane foam for load-bearing applications excluding carpet underlay – Specification**

Specifies requirements for flexible load-bearing polyurethane foam of the polyether type.

ISO 5999:2013 is applicable to flexible polyurethane cellular materials manufactured in block, sheet and strip form, in moulded and fabricated shapes, and as reconstituted material, used for load-bearing applications in general, but excluding carpet backing and underlay. It, thus, primarily relates to the quality of polyurethane foam used for comfort cushioning purposes.

83.100

**BOS ISO 6556:2012                      Laboratory glassware – Filter flasks**

Specifies requirements to filter flasks with conical or cylindrical shape for general laboratory purposes.

ICS: 71.040.20

**BOS ISO 6938:2012                      Textiles — Natural fibres — Generic names and definitions**

This International Standard gives the generic names and the definitions of the most important natural fibres according to their specific constitution or origin.

An alphabetical list of names in common use is provided, together with the corresponding standardized denominations.

56.060.10

**BOS ISO 8191-1:1987 Furniture – Assessment of the ignitability of upholstered furniture – Part 1: Ignition source: Smouldering cigarette**

This part of ISO 8191 lays down a method of test to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating when subjected to a smouldering cigarette as an ignition source.

The tests measure only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behaviour of the finished item of furniture.

ICS: 97.140, 13.220.40

**BOS ISO 5970:1979 Furniture – Chairs and tables for educational institutions – Functional sizes**

The specified dimensions are confined to those which derive from anthropometric data; compliance with them ensures that the furniture permits good seating postures. The seven sizes for seating and related tables based on a reference stature are given in tables 1 and 2, and the references to the dimensions are shown in figures 1 and 2. This standard does not include special requirements applicable to "special schools" and adjustable furniture.

ICS: 97.140

**BOS ISO 4915: 1991 Textiles - Stitch types - Classification and terminology**

This International Standard classifies, designates, describes and illustrates the various kinds of stitch types used in hand and machine-sewn seams.

ICS: 59.080.01

**BOS ISO 4916: 1991 Textiles - Seam types - Classification and terminology**

This International Standard classifies, illustrates and designates, the various kinds of stitched seams. It is not intended to be fully comprehensive but to illustrate a number of the most used seam types. It is applicable to seams used most particularly in the clothing industry. All illustrations show the cross section of the material configuration only. This International Standard should be read in conjunction with ISO 4915.

ICS: 59.080.01

**BOS ISO 4427-1: 2007 Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 1: General**

This part of ISO 4427 specifies the general aspects of polyethylene (PE) piping systems (mains and service pipes) intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the test methods to which it refers.

ICS: 23.040.20; 91.140.60; 93.025

Price code: 12

Pages: 24

**BOS ISO 4427-2: 2007 Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 2: Pipes – Specification**

This part of ISO 4427 specifies the pipes made from polyethylene (PE) intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the test methods to which it refers.

ICS: 23.040.20; 91.140.60; 93.025

Price code: 13

Pages: 28

**BOS ISO 4427-3: 2007 Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 3: Fittings**

This part of ISO 4427 specifies the general aspects of fittings made from polyethylene (PE) for piping systems intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the test methods to which it refers.

ICS: 23.040.20; 91.140.60; 93.025

Price code: 16

Pages: 40

**BOS ISO 4427-5: 2007                      Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 5: Fitness for purpose of the system – Specification**

This part of 4427 specifies the characteristics of the fitness for purpose of assembled piping systems made from polyethylene (PE) intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the methods to which it refers.

ICS: 23.040.20; 91.140.60; 93.025

Price code: 8

Pages: 16

**BOS ISO 4591: 1992                      Plastics -- Film and sheeting -- Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)**

Applies to all plastics films and sheeting and has special value when mechanical scanning is not sufficiently precise, particularly for measuring the thickness of embossed sheeting. The gravimetric thickness is calculated from measurements of mass, area and density of a sample.

ICS: 83.140.10

Price code: 6

Pages: 12

**BOS ISO 4633: 2002                      Rubber seals – Joint rings for water supply, drainage and sewage pipelines – Specification for materials**

This International Standard specifies requirements for materials used in vulcanised rubber seals for

- a) cold drinking-water supplies (up to 50 °C)
- b) drainage, sewerage and rainwater systems (continuous flow up to 45 °C and intermittent flow up to 95 °C).

This standard is applicable to joint seals for all pipeline materials, including iron, steel, clay, fibre cement, concrete, reinforced concrete, plastics and glass-reinforced plastics.

ICS: 83.140.50

Price code: 12

Pages: 24

**BOS ISO 4706: 1989                      Refillable welded steel gas cylinders**

This International Standard gives minimum requirements for certain aspects concerning material, design, construction and workmanship, procedure and test at manufacture of refillable welded steel gas cylinders at a test pressure not greater than 75 bar <sup>1)</sup>, and of water capacities from 1 L up to and including 150L for compressed, liquefied or dissolved gases, exposed to ambient temperatures.

ICS: 23.020.30

Price code: 13

Pages: 27

**BOS ISO 4849: 1981                      Personal eye-protectors – Specifications**

Deals with general considerations, such as: designation, classification, requirements applicable to all types, some particular requirements, sampling, identification. The transmittance requirements and methods of test for particular uses are given in the International Standards listed in clause 3. Gives functional requirements for the various types used mainly in industry. Applies to all types used against various hazards which are likely to damage the eye or impair vision, with the exception of nuclear radiation, X-rays, laser beams and low-temperature infrared radiation.

ICS: 13.340.20

Price code: 8

Pages: 16

**BOS ISO 4921:2000                      Knitting — Basic concepts — Vocabulary**

This International Standard defines terms for basic knitting concepts. The definitions of this vocabulary are complete in themselves; illustrations are used to clarify the content of a definition, but no standardization of any notational system is attempted.

ICS: 59.020, 01.040.59

**BOS ISO 5541-1: 1986                      Milk and milk products – Enumeration of coliforms – Part 1: Colony count technique at 30°C.**

Specifies a method for the enumeration of coliforms by means of the colony count technique at 30 °C.

ICS: 67.100.01

Price code: 8

Pages: 16

**BOS ISO 5541-2: 1986 Milk and milk products – Enumeration of coliforms – Part 2: Most probable number technique at 30°C.**

Specifies a method for the enumeration of coliforms by means of the culture technique involving a liquid medium, and calculation of the most probable number (MPN) after incubation at 30 °C.

ICS: 67.100.01

Price code: 8

Pages: 16

**BOS ISO 5666: 1999 Water quality: Determination of mercury**

This International Standard specifies two methods for the determination of mercury in water, for example in ground, surface and waste waters.

ICS: 13.060.50

Price code: 12

Pages: 24

**BOS ISO 5667-1: 2006 Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques**

This part of ISO 5667 sets out the general principles for, and provides guidance on, the design of sampling programmes and sampling techniques for all aspects of sampling water (including waste waters, sludges, effluents and bottom deposits). It does not include detailed instructions for specific sampling situations, which are covered in the various other parts of ISO 5667. Also it does not include microbiological sampling, which is covered in ISO 19458 <sup>[23]</sup>

ICS: 13.060.45

Price code: 15

Pages: 33

**BOS ISO 5667-3: 2003 Water quality – Sampling – Part 1: Guidance on the preservation and handling of water samples**

This part of ISO 5667 gives general principles on the precautions to be taken to preserve and transport all water samples including those for biological analyses but not those intended for microbiological analysis. These guidelines are particularly appropriate when spot or composite samples cannot be analysed on-site and have to be transported to a laboratory for analysis.

ICS: 13.060.45

Price code: 15

Pages: 33

**BOS ISO 5667-4: 1987 Water quality–Sampling - Part 4: Guidance on sampling from lakes, natural and man – made lakes.**

This part of ISO 5667 presents detailed principles to be applied to the design of sampling programmes, to sampling techniques and the handling and preservation of samples of water from natural and man-made lakes. Sampling for microbiological examination is not included. The main objectives are in 1.1 to 1.3.

ICS: 13.060.45

Price code: 8

Pages: 12

**BOS ISO 5667-5: 2006 Water quality–Sampling - Part 4: Guidance on sampling of drinking water from treatment work and piped distribution systems**

This part of ISO 5667 establishes principles to be applied to the techniques of sampling water intended for human consumption. For purposes of this part of ISO 5667, water intended for human consumption comprises:

- a) all water either in its original taste or after treatment, intended for drinking, cooking, food preparation, or other domestic purposes, regardless of its origin, plus.
- b) all water used in any production undertaking for the manufacture, processing, preservation or marketing of products or substances intended for human consumption unless the competent national authorities are satisfied that the quality of the water cannot affect the wholesomeness of the foodstuff in its finished form.

ICS: 13.060.45

Price code: 13

Pages: 28

**BOS ISO 5667-6: 2005 Water quality–Sampling - Part 6: Guidance on sampling of rivers**

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**and streams.**

This part of ISO 5667 sets out the principles to be applied to the design of sampling programmes, sampling techniques and the handling of water samples from rivers and streams for physical, chemical and microbiological assessment. It is not applicable to the sampling of estuarine or coastal waters and is of limited applicability to the microbiological sampling.

ICS: 13.060.45

Price code: 13

Pages: 28

**BOS ISO 5667–10: 1992      Water quality – Sampling – Part 10: Guidance on sampling of waste waters**

This part of ISO 5667 contains details on the sampling of domestic and industrial waste water, i.e. the design of sampling programmes and techniques for the collection of samples. It covers waste water in all its forms, i.e. industrial waste water, and crude and treated domestic waste water. Sampling of accidental spillages is not included, although the methods described in certain cases may also be applicable to spillages.

ICS: 13.060.20

Price code: 10

Pages: 20

**BOS ISO 5667–11: 2009      Water quality–Sampling - Part 11: Guidance on sampling of groundwaters**

This part of ISO 5667 provides guidance on the sampling of ground waters. It informs the user of the necessary consideration when planning and undertaking groundwater sampling to survey the quality of ground water supply, to detect and access ground water contamination and to assist in ground water resource management, protection and remediation. This part of ISO 5667 does not apply to sampling related to the day-to-day operational control of groundwater abstractions for potable purposes. The guidance includes sampling of groundwater from both the saturated (below water table) zone and the unsaturated (above the water table) zone.

ICS: 13.060.45

Price code: 16

Pages: 40

**BOS ISO 5681: 1992      Equipment for crop protection – Vocabulary**

Defines 9 general terms, 146 terms for equipment for applying sprays, 11 terms for equipment for applying dust, 8 terms for equipment for applying granules, and 23 other terms.

ICS: 65.060.40; 01.040.65

Price code: 12

Pages: 24

**BOS ISO 5682-1: 1996      Equipment for crop protection - Spraying equipment -- Part 1: Test methods for sprayer nozzles**

Describes methods for estimating the accuracy of hydraulic sprayer nozzles for hydraulic spraying. Replaces the first edition.

ICS: 65.060.40

Price code: 13

Pages: 28

**BOS ISO 5682-2: 1997      Equipment for crop protection- Spraying equipment -- Part 2: Test methods for hydraulic sprayers**

This part of ISO 5682 specifies the methods of testing and assessing the performance and accuracy distribution of hydraulic sprayers for field crops. It is applicable to agricultural hydraulic sprayers for field crops, except for manual sprayers and aircraft-mounted sprayers.

ICS: 65.060.40

Price code: 8

Pages: 16

**BOS ISO 5682-3: 1996      Equipment for crop protection - Spraying equipment -- Part 3: Test method for volume/hectare adjustment systems of agricultural hydraulic pressure sprayers**

Specifies the test method for volume/hectare adjustment systems of sprayers in order to assess precision of spraying and performance. Suitable for agricultural hydraulic pressure sprayers used for protection and/or fertilization of crops.

ICS: 65.060.40

Price code: 8

Pages: 16

**BOS ISO 5961: 1994      Water quality – Determination of cadmium by atomic absorption spectrometry.**

Two methods for determination of cadmium: flame atomic absorption spectrometry (AAS) (Section 2) and electro thermal atomisation (AAS) (Section 3).

ICS 13.060.50

Price code: 8

Pages: 16

**BOS ISO 6058: 1984**                      **Water quality – Determination of calcium content – EDTA titrimetric method.**

Titrimetric method using ethylenediaminetetraacetic acid (EDTA) for the determination of the calcium content of ground waters, surface waters and drinking waters.

ICS: 13.060.50

Price code: 6

Pages: 12

**BOS ISO 6059: 1984**                      **Water quality – Determination of the sum of calcium and magnesium – EDTA titrimetric method**

Titrimetric method using ethylenediaminetetraacetic acid (EDTA) for the determination of the sum of the calcium and magnesium concentrations in ground waters, surface waters and drinking waters.

ICS: 13.060.50

Price code: 6

Pages: 12

**BOS ISO 6222: 1999**                      **Water quality – Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture medium**

This standard specifies a method for the enumeration of culturable micro-organisms in water by counting the colonies formed in a nutrient agar culture medium after aerobic incubation at 36°C and 22°C. The method is intended to measure the operational efficiency of the treatment process of public drinking water supplies and for general application to all types of water. It is particularly applicable to the examination of water intended for human consumption, including water in closed containers and to natural mineral waters.

ICS: 13.060.50

Price code: 6

Pages: 12

**BOS ISO 6461-2: 1986**                      **Water quality – Detection and enumeration of the spores of sulphide reducing anaerobes (clostridia) – Part 2: Method by membrane filtration**

This part of ISO 6461 specifies a method for the detection and enumeration of the spores of sulphite-reducing anaerobes (clostridia) by membrane filtration.

ICS: 13.060.45

Price code: 6

Pages: 12

**BOS ISO 6490-1: 1985**                      **Animal feeding stuffs – Determination of calcium content – Part 1: Titrimetric method**

This part of ISO 6490 specifies titrimetric method for the determination of calcium content of animal feeding stuffs. The method is applicable to all animal feeding stuffs having calcium greater than 1g/kg.

ICS: 65.120

Price code: 4

Pages: 8

**BOS ISO 6491: 1998**                      **Animal feeding stuffs – Determination of phosphorus content – Spectrometric method**

This International Standard specifies spectrometric method for the determination of the phosphorus content of animal feeding stuffs. The method is applicable to animal feeding stuffs with a phosphorus content less than 50g/kg. It is particularly appropriate for the analysis of products with low phosphorus content. For products with higher phosphorus content, application of a gravimetric method is advised, using for instance quinoline phosphomolybdate.

ICS: 65.120

Price code: 8

Pages: 16

**BOS ISO 6496: 1999**                      **Animal feeding stuffs – Determination of moisture and other volatile matter content**

This International Standard specifies a method for the determination of the moisture and other volatile matter content of animal feeding stuffs. The method is applicable to animal feeding stuffs with the exception of:

- milk products
- mineral substances
- mixtures containing a considerable amount of milk products or mineral substances, for example

- milk replacers
- animal feeding stuffs containing humectants (e.g. propylene glycol)

ICS: 65.120

Price code: 8

Pages: 15

**BOS ISO 6498: 1999                      Animal feeding stuffs – Preparation of test samples**

This International Standard specifies methods for the preparation of test samples from laboratory samples of animal feeding stuffs including pet foods.

ICS: 65.120

Price code: 9

Pages: 18

**BOS ISO 6644: 2002                      Flowing cereals and milled products – Automatic sampling by mechanical means – Specification**

This International Standard specifies requirements for the automatic sampling, by mechanical means, of cereals (as grain) or of milled cereal products moving in bulk, for assessment of their quality. It is not applicable to commodities in sacks or in packages, to static bulks in wagons, ships, bulk tankers, silos or warehouses <sup>1)</sup>. It does not apply to seed grain.

ICS: 67.060

Price code: 10

Pages: 20

**BOS ISO 6651: 2001                      Animal feeding stuffs – Semi-quantitative determination of aflatoxin B<sub>1</sub> – Thin-layer chromatographic methods**

This International Standard specifies two methods for the determination of aflatoxin B<sub>1</sub> in animal feeding stuffs. These methods can only be used for semi-quantitative determinations.

ICS: 65.120

Price code: 12

Pages: 24

**BOS ISO 6731: 1989                      Milk, cream and evaporated milk – Determination of total solids content (Reference method).**

Specifies the reference method for the determination of the total solids content of milk, cream and evaporated milk.

ICS: 67.100.10

Price code: 6

Pages: 12

**BOS ISO 6866: 1985                      Animal feeding stuffs – Determination of free and total gossypol**

This International Standard specifies a method for the determination of the content of free and total gossypol and chemically related substances in animal feeding stuffs.

ICS: 65.120

Price code: 6

Pages: 12

**BOS ISO 6938:2012                      Textiles — Natural fibres — Generic names and definitions**

This International Standard gives the generic names and the definitions of the most important natural fibres according to their specific constitution or origin.

An alphabetical list of names in common use is provided, together with the corresponding standardized denominations.

ICS: 59.060.10, 01.040.59

**BOS ISO 7211-2:1984                      Textiles - Woven fabrics - Construction - Methods of analysis - Part 2: Determination of number of threads per unit length**

This part of ISO 7211 specifies three methods for the determination of the number of threads per centimetre in woven fabrics. Any of the three methods may be used, the choice depending on the character of the fabric. However, in case of dispute method A is recommended.

ICS: 59.080.30

**BOS ISO 7211-3:1984                      Textiles - Woven fabrics - Construction - Methods of analysis - Part 3: Determination of crimp of yarn in fabric**

This part of ISO 7211 specifies a method for the determination of crimp of yarn in fabric. The method is applicable to most woven fabrics but is unsuitable for fabrics manufactured in such a way as to render removal of the crimp from the yarns impossible or impractical under the specified straightening tension.

ICS: 59.080.30

**BOS ISO 7211-4:1984                      Textiles - Woven fabrics - Construction - Methods of analysis – Part 4: Determination of twist in yarn removed from fabric**

This part of ISO 7211 specifies a method for the determination of twist in yarns removed from woven fabrics. The method is only applicable to yarns spun on conventional systems, and is not applicable to OE (open-end spun) or interlaced yarns, for example.

ICS: 59.080.30

**BOS ISO 7393-1: 1985                      Water quality – Determination of free chlorine and total chlorine – Part 1: Titrimetric method using N,N-diethyl-1,4-phenylenediamine.**

Titrimetric method for the determination of free chlorine and total chlorine in water.

ICS: 13.060.50

Price code: 8

Pages: 15

**BOS ISO 7393-2: 1985                      Water quality – Determination of free chlorine and total chlorine – Part 2: Colorimetric method using N,N-diethyl-1,4-phenylenediamine, for routine control purposes.**

Method for the determination of free chlorine and total chlorine in water readily applicable to field testing.

ICS: 13.060.50

Price code: 8

Pages: 16

**BOS ISO 7393-3: 1990                      Water quality – Determination of free chlorine and total chlorine – Part 3: Iodometric titration method for the determination of total chlorine.**

Iodometric titration method for the determination of total chlorine in water.

ICS: 13.060.50

Price code: 8

Pages: 16

**BOS ISO 7056:1981                      Plastics laboratory ware – Beaker**

The requirements specify a series of plastic cylinders having a tapered or non-tapered form. The capacity is in the range from 25 ml to 5000 ml. For non-opaque beakers the graduation is specified. The construction, dimensions and material are described. The annexes deal with the test for ionic material extracted by water and with the flexibility test.

ICS: 17.060

**BOS ISO 7057:1981                      Plastics laboratory ware – Filter funnels**

Six preferred sizes are defined by their internal bowl diameter. General design are shown in a figure and the dimensions are tabled. The material shall be general non-brittle plastics. Annex A concern the determination of resistance to extraction of ionic material by water, Annex B describes the flexibility test.

ICS: 71.040.20

**BOS ISO 7704:1985                      Water quality – Evaluation of membrane filters used for microbiological analyses**

Gives a procedure for the evaluation and comparison of water-testing filters intended for the enumeration of specific organisms and mixed microbial populations. The procedure provides general guidelines for comparative testing of the recoveries of bacteria, yeasts and other fungi on membrane filters, as compared to recoveries by the spread plate and pour plate techniques.

ICS: 07.100.20



**BOS ISO 7712:1983** Laboratory glassware – Disposable Pasteur pipettes  
The requirements deal with pipettes which are uncalibrated and intend for the transfer and dispensing of drops of solutions, and suspensions of biological materials. Two sizes are specified, details of which are given in a table, and the general form is illustrated in a figure. The resistance to sterilization by exposure to dry heat or to saturated steam is specified.

ICS: 17.060

**BOS ISO 7730:2005** Ergonomics of the thermal environment – Analytical determination and interpretation of thermal comfort using calculations of the PMV and PPD indices and local thermal comfort criteria.

Presents methods for predicting the general thermal sensation and degree of discomfort (thermal dissatisfaction) of people exposed to moderate thermal environments. It enables the analytical determination and interpretation of thermal comfort using calculation of PMV (predicted mean vote) and PPD (predicted percentage of dissatisfied) and local thermal comfort, giving the environmental conditions considered acceptable for general thermal comfort as well as those representing local discomfort.

ICS: 13.180

**BOS ISO 7888: 1985** Water quality – Determination of electrical conductivity.  
Method for the measurement of the electrical conductivity of all types of water.

ICS: 13.060.60

Price code: 6

Pages: 12

**BOS ISO 7890-1: 1986** Water quality – Determination of nitrate – Part 1: 2,6 – Dimethylphenol spectrometric method

Method for the determination of nitrate ion in water.

ICS: 13.060.50

Price code: 6

Pages: 12

**BOS ISO 7890-2: 1986** Water quality – Determination of nitrate – Part 2: 4 – fluorophenol spectrometric method after distillation

Method for the determination of nitrate ion in water.

ICS: 13.060.50

Price code: 6

Pages: 12

**BOS ISO 7890-3: 1988** Water quality – Determination of nitrate – Part 3: Spectrometric method using sulfosalicylic acid.

Specifies a method for the determination of nitrate ion in water.

ICS: 13.060.50

Price code: 6

Pages: 12

**BOS ISO 7899-1: 1998** Water quality – Detection and enumeration of intestinal enterococci in surface and waste water – Part 1: Miniaturized method (Most Probable Number) by inoculation in liquid medium

This part of ISO 7899 specifies a miniaturized method for the detection and enumeration of major intestinal enterococci in surface and waste waters, particularly those rich in suspended matter. This method is not suitable for drinking water and any other type of water for which the guideline count is less than 15 per 100ml.

ICS: 13.060.45

Price code: 13

Pages: 28

**BOS ISO 8026: 1995** Agricultural irrigation equipment -- Sprayers -- General requirements and test methods

Cancels and replaces the first edition (1985). Specifies the general requirements and test methods for irrigation sprayers. Applies to sprayers intended for assembly in pipeline networks for irrigation and for operation with irrigation water.

**BOS ISO 8388:1998 Knitted fabrics - Types – Vocabulary**

This International Standard defines terms for industrially produced machine knitted fabrics.

ICS: 59.080.30

**BOS ISO 8498:1990 Woven Fabric – Description of defects – Vocabulary**

This International Standard describes defects which commonly appear during the inspection of woven piece-goods. The purpose of this International Standard is to define woven fabric defects, i.e. those characteristics that have been unintentionally introduced into the fabric. The presence of one or other of these characteristics in a fabric does not automatically imply that the fabric is sub-Standard. Textile suppliers and purchasers will still have to reach agreement on whether a defect is present. If it is considered that a defect is present, they will then have to agree on the limits of the defect and on any allowance to be made, bearing in mind the intended use of the fabric.

ICS: 59.080.30, 01.040.59

**BOS ISO 8499:2003 Knitted fabrics — Description of defects — Vocabulary**

This International Standard describes defects which commonly appear during the inspection of knitted fabrics.

ICS: 01.040.59, 59.080.30

**BOS ISO 8968-1: 2001 Milk – Determination of nitrogen - Part 1: Kjeldahl method**

This part of ISO 8968 IDF 20 specifies a method for the determination of the nitrogen content of liquid milk, whole or skimmed, by the Kjeldahl principle. **Warning** – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10

Price code: 12

Pages: 24

**BOS ISO 8968-2: 2001 Milk – Determination of nitrogen content – Part 2: Block digestion method (Macro method)**

This part of ISO 8968 IDF 20 specifies a method for the determination of the nitrogen content of liquid milk, whole or skimmed, by block digestion principle. **Warning** – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10

Price code: 10

Pages: 20

**BOS ISO 8968-4: 2001 Milk – Determination of nitrogen content – Part 4: Determination of non-protein nitrogen content**

This part of ISO 8968 IDF 20 specifies a method for the determination of the non-protein nitrogen content of liquid milk, whole or skimmed. **Warning** – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10

Price code: 10

Pages: 20

**BOS ISO 8968-5: 2001 Milk – Determination of nitrogen content – Part 5: Determination of protein-nitrogen content**

This part of ISO 8968 IDF 20 specifies a method for the determination of the protein-nitrogen content of liquid milk, whole or skimmed. An alternative indirect method using calculations is also described.

**Warning** – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10

Price code: 10

Pages: 20

**BOS ISO 9000: 2005**                      **Quality management systems – Fundamentals and vocabulary**

This International Standard describes fundamentals of quality management systems, which form the subject of the ISO family, and defines related terms. This standard is applicable to the following:

- a) organizations seeking advantage through the implementation of a quality management system
- b) organizations seeking confidence from their suppliers that their product requirements will be satisfied users of the products those concerned with a mutual understanding of the terminology used in quality management (e.g. suppliers, customers, regulators) those internal or external to the organization who assess the quality management system or audit it for conformity with the requirements of ISO 9001 (e.g. auditor, regulators, certification/ registration bodies) those internal or external to the organization who give advice or training on the quality management system appropriate to that organization developers of related standards.

ICS: 03.120.10

Price code: 17

Pages: 44

**BOS ISO 9001: 2015 (IDT) 5<sup>th</sup> ed**                      **Quality management systems: Requirements**

Requirements for a quality management system when an organization:

- a) Needs to demonstrate its ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements, and
- b) aims to enhance customer satisfaction through the effective application of the system, including processes for improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements.

All the requirements of this International Standard are generic and are intended to be applicable to any organization, regardless of its type, or the products and services it provides.

ICS: 03.120.10

Price code: 17

Pages: 44

**BOS ISO 9004: 2009**                      **Managing for the sustained success of an organization – A quality management approach**

This International Standard provides guidance to organizations to support the achievement of sustained success by a quality management approach. It is applicable to any organization, regardless of size, type and activity. This International Standard is not intended for certification, regulatory or contractual use.

ICS: 03.120.10

Price code: 20

Pages: 56

**BOS ISO 9117-1:2009**                      **Paints and varnishes — Drying tests — Part 1: Determination of through-dry state and through-dry time**

This part of ISO 9117 specifies a test method for determining under standard conditions whether a single coat or a multi-coat system of paint, varnish or related material has reached the through-dry state after a specified drying period.

NOTE The test procedure may also be used to determine the time taken to achieve that state.

ICS: 87.040

**BOS ISO 9229:2007**                      **Thermal insulation – Vocabulary**

This International Standard establishes a vocabulary of terms used in the field of thermal insulation covering materials, products, components and applications. Some of the terms may have a different meaning when used in other industries or applications.

NOTE In addition to terms used in English and French, two of the three official ISO languages (English, French and Russian), this document gives the equivalent terms in German; these are published under the responsibility of the member body for Germany (DIN), and are given for information only. Only the terms and definitions given in the official languages can be considered as ISO terms and definitions.

ICS: 27.220

**BOS ISO 9288:2007 Thermal insulation – Heat transfer by radiation – Physical quantities and definitions**

This Standard defines physical quantities and other terms in the field of thermal insulation relating to heat transfer by radiation.

ICS: 27.220

**BOS ISO 9251:1987 Thermal insulation – Heat transfer conditions and properties of Materials – Vocabulary**

This Standard defines terms used in the field of thermal insulation to describe heat transfer conditions and properties of materials.

ICS: 27.220

**BOS ISO 9346:2007 Hydrothermal performance of buildings and building materials – Physical quantities for mass transfer - Vocabulary**

This International Standard defines physical quantities and other terms in the field of mass transfer relevant to buildings, building elements and systems, building components and building materials. For physical quantities the standard also gives the corresponding symbols and units.

ICS: 27.220

**BOS ISO 9354:1989 Textiles - Weaves - Coding system and examples**

This International Standard establishes a code for the systematic numerical notation for basic weaves and their simple derivatives.

ICS: 59.080.30

**BOS ISO 9407:1991 Shoes sizes - Mondopoint System of sizing. and marking**

This International Standard describes the fundamental characteristics of a System of sizing shoes that is to be known as Mondopoint. It specifies the method of size marking for shoes and applies to all types of shoe, without restriction.

ICS: 61.060

**BOS ISO 9459-1: 1993 Solar heating – Domestic water heating systems – Part 1: performance rating procedure using indoor test methods**

A uniform indoor test method for rating solar domestic water heating systems for thermal performance under benchmark conditions.

ICS: 27.160

Price code: 16

Pages: 40

**BOS ISO 9459-2: 1995 Solar heating – Domestic water heating systems – Part 2: Outdoor test methods for system performance characterization and yearly performance prediction of solar-only systems**

Test procedures for characterizing the performance of solar domestic water heating systems operated without auxiliary boosting.

ICS: 27.160; 91.140.20

Price code: 22

Pages: 72

**BOS ISO 9459-3: 1997 Solar heating – Domestic water heating systems – Part 3: Performance test for solar plus supplementary systems**

Solar domestic water heating systems designed to heat potable water to be supplied solely for domestic water usage and is not intended to be applied to other systems.

ICS: 27.160; 91.140.20

Price code: 16

Pages: 36

**BOS ISO 9806-1: 1994 Test methods for solar collectors – Part 1: Thermal performance of glazed liquid heating collectors including pressure drops**

This part of ISO 9806 establishes methods for determining the thermal performance of glazed liquid heating solar collectors. These tests are intended for use as part of the sequence of tests specified in ISO 9806-2.

ICS: 27.160; 91.140.20

Price code: 22

Pages: 68

**BOS ISO 9806-2: 1995 Test method for solar collectors – Part 2: Qualification test procedures**

Test methods for determining the ability of a solar collector to resist the influences of degrading agents.

ICS: 27.160; 91.140.20

Price code: 20

Pages: 56

**BOS ISO 9964-1: 1993 Water quality - Determination of sodium and potassium - Part 1: Determination of sodium by atomic absorption spectrometry**

This standard specifies a method for the determination of dissolved sodium by flame atomic absorption spectrometry (AAS). It is intended for the analysis of raw and drinking water. The method is applicable to water samples with mass concentration of sodium in the range from 5mg/l to 50mg/l. This range can be extended to lower or higher limits if dilution factors are chosen which are different from the factor specified in clause 8.

ICS: 13.060.50

Price code: 6

Pages: 12

**BOS ISO 9964-2: 1993 Water quality - Determination of sodium and potassium - Part 2: Determination of potassium by atomic absorption spectrometry**

This standard specifies a method for the determination of dissolved potassium by flame atomic absorption spectrometry (AAS). It is intended for the analysis of raw and drinking waters. The method is applicable to water samples with mass concentration of potassium in the range from 5mg/l to 50mg/l. This range can be extended to lower or higher limits if dilution factors are chosen which are different from the factor specified in clause 8.

ICS: 13060.50

Price code: 6

Pages: 12

**BOS ISO 10002: 2004 Quality Management – Customer satisfaction – Guidelines for complaints handling in organizations**

Guidance on the process of complaints handling related to products within an organization, including planning, design operation, maintenance and improvement.

ICS: 03.120.10

Price code: 16

Pages: 36

**BOS ISO/TR 10013: 2001 Guidelines for quality management system documentation**

This Technical Report provides guidelines for the development and maintenance of the documentation necessary to ensure an effective quality management system, tailored to the specific needs of the organization. The use of these guidelines will aid in establishing a documented system as required by the applicable quality management system standard. This Report may be used to document management systems other than that of the ISO 9000 family, for example EMS and safety management systems.

ICS: 03.120.10

Price code: 12

Pages: 24

**BOS ISO 11014-1: 1994 Safety data sheet for chemical products -- Part 1: Content and order of sections.**

Presents information for the compilation and completion of a safety data sheet. Defines specifically the general layout of the SDS, the 16 standard headings, the numbering and the sequence of these 16 standard headings, the items necessary to fill in an SDS and the conditions of their applicability or utilization.

ICS: 71.100.01

Price code: 8

Pages: 16

**BOS ISO 11050: 1993 Wheat flour and durum wheat semolina -- Determination of impurities of animal origin**

The principle of the method described is hydrolysis of a test portion with a solution of hydrochloric acid at boiling point, concentration of the insoluble particles at a water/hydrocarbon interface, separation by filtration on a filter paper or membrane, microscopic examination, and counting under reflected light, of the impurities of animal origin (i.e. insects at all stages of their development, insect fragments, mites and their fragments, and rodent hairs and their fragments). Applies to wheat flours, with or without additives and having an ash yield not exceeding 0,63 % (m/m), and durum wheat semolinas.

ICS: 67.060

Price code: 10

Pages: 20

**BOS ISO 11051: 1994 Durum wheat (*Triticum durum* Desf.) -- Specification**

Lays down minimum specifications for durum wheat (*Triticum durum* Desf.) intended for human consumption and forming the subject of international trade. Also gives methods for the determination of the level of impurities, the proportion of non-wholly-vitreous grains, a list of typical insect pests of stored cereals and an informative list of harmful and toxic seeds.

ICS: 67.060

Price code: 10

Pages: 20

**BOS ISO 11212 – 2: 1997 Starch and derived products – Heavy metals content – Part 2: Determination of mercury content by atomic absorption spectrometry**

This part of ISO 11212 specifies a method for the determination of the mercury content of starch, including derivatives and by-products, by atomic absorption spectrometry with cold vapour generation.

ICS: 67.180.20

Price code: 6

Pages: 12

**BOS ISO 11600: 2002 Building construction -- Jointing products -- Classification and requirements for sealants.**

This International Standard specifies the types and classes of sealants used in building construction according to their applications and performance characteristics.

ICS: 91.100.50

Price code: 8

Pages: 16

**BOS ISO 11684: 1995 Tractors, machinery for agriculture and forestry, powered lawn and garden equipment -- Safety signs and hazard pictorials -- General principles**

Establishes general principles for the design and application of safety signs and hazard pictorials permanently affixed to tractors, machinery for agriculture and forestry, and powered lawn and garden equipment as defined in ISO 3339-0 and ISO 5395. Outlines safety sign objectives, describes the basic safety sign formats and colours, and provides guidance on developing the various panels that together constitute a safety sign.

ICS: 65.060.01; 01.080.20

Price code: 20

Pages: 60

**BOS ISO 11866-1: 2005 Milk and milk products – Enumeration of presumptive *Escherichia coli* – Part 1: Most probable number technique using 4-methylumbelliferyl- $\beta$ -D-glucuronide (MUG).**

This part of ISO 11866 | IDF 170 specifies a combined method for the enumeration of presumptive *Escherichia coli* and of presumptive coliforms by means of the culture technique involving a liquid medium with MUG, and calculation of the number of presumptive *Escherichia coli* per gram or per millilitre by the most probable number (MPN) technique after incubation at 30°C.

ICS: 07.100.30

Price code: 10

Pages: 20

**BOS ISO 11866-2: 2005 Milk and milk products – Enumeration of presumptive Escherichia coli – Part 2: Colony-count technique at 44 °C using membranes**

This part of ISO 11866 | IDF 170 specifies a method for the enumeration of presumptive Escherichia coli by means of a colony-count technique 44 °C.

ICS: 07.100.30

Price code: 8

Pages: 16

**BOS ISO 11969: 1996 Water quality – Determination of arsenic – Atomic absorption spectrometric method (hydride technique)**

This International Standard specifies a method for the determination of arsenic including organically bound arsenic in drinking waters, ground waters and surface waters, in a concentration from 1 µg/l to 10 µg/l. Higher concentrations can be determined by using a suitable dilution of the water sample.

**Warning – Arsenic and arsenic compounds are toxic and are recognized as human carcinogens. Avoid any exposure by inhalation. Personal protection must be used in all cases where exposure to arsenic or arsenic compounds is possible.**

ICS: 13.060.50

Price code: 8

Pages: 16

**BOS ISO 12020: 1997 Water quality – Determination of aluminium – Atomic absorption spectrometric methods**

Describes two atomic absorption spectrometric (AAS) methods for the determination of aluminium in water.

ICS: 13.060.50

Price code: 10

Pages: 20

**BOS ISO 12439: 2010 Mixing water for concrete**

This International Standard specifies the requirements for water that is suitable for making concrete in accordance with ISO 22965 (all parts) and describes methods for accessing its suitability.

ICS: 91.100.30

Price code: 12

Pages: 24

**BOS ISO 13006: 1998 Ceramic tiles – Definitions, classification, characteristics and marking**

Defines terms and establishes classifications, characteristics and marking requirements for ceramic tiles of the best commercial quality.

ICS: 91.100.25, 01.040.91

Price code: 21

Pages: 64

**BOS ISO 13690: 1999 Cereals, pulses and milled products – Sampling of static batches.**

This International Standard specifies general conditions relating to sampling for the assessment of the quality of cereals, pulses and milled products from cereals and pulses (hereinafter called "grain") in bulk or in bags but excluding pellets.

NOTES: 1. Sampling of seed grain is covered by the rules established by the International Seed Testing Association.  
2. Sampling for hidden insect infestation is covered by ISO 6639-2.  
3. ISO 6644 covers sampling of flowing grain

ICS: 67.060

Price code: 13

Pages: 28

**BOS ISO 13934-1:2013 Textiles – Tensile properties of fabrics – Part 1: Determination of maximum force and elongation at maximum force using the strip method**

Specifies a procedure to determine the maximum force and elongation at maximum force of textile fabrics using a strip method. The method is mainly applicable to woven textile fabrics, including fabrics which exhibit stretch characteristics imparted by the presence of an elastomeric fibre, mechanical, or chemical treatment. It can be applicable to fabrics produced by other techniques. It is not normally

applicable to geotextiles, nonwovens, coated fabrics, textile-glass woven fabrics, and fabrics made from carbon fibres or polyolefin tape yarns (see Bibliography).

The method specifies the determination of the maximum force and elongation at maximum force of test specimens in equilibrium with the standard atmosphere for testing, and of test specimens in the wet state.

The method is restricted to the use of constant rate of extension (CRE) testing machines.

ICS: 59.080.30

**BOS ISO 14001: 2015 Environmental management systems – Requirements with guidance for use**

ISO 14001:2015 specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance. ISO 14001:2015 is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability.

ISO 14001:2015 helps an organization achieve the intended outcomes of its environmental management system, which provide value for the environment, the organization itself and interested parties. Consistent with the organization's environmental policy, the intended outcomes of an environmental management system include:

- enhancement of environmental performance;
- fulfilment of compliance obligations;
- achievement of environmental objectives.

ISO 14001:2015 is applicable to any organization, regardless of size, type and nature, and applies to the environmental aspects of its activities, products and services that the organization determines it can either control or influence considering a life cycle perspective. ISO 14001:2015 does not state specific environmental performance criteria.

ISO 14001:2015 can be used in whole or in part to systematically improve environmental management. Claims of conformity to ISO 14001:2015, however, are not acceptable unless all its requirements are incorporated into an organization's environmental management system and fulfilled without exclusion.

ICS: 13.020.10

Price code: 18

Pages: 48

**BOS ISO 14004: 2004 Environmental management systems - General guidelines on principles, systems and supporting techniques**

Provides guidance on the development and implementation of environmental management systems and principles, and their co-ordination with other management systems.

ICS 13.020.10

Price Code: 18

Pages 50

**BOS ISO 14064-1: 2006 Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements**

This part of ISO 14064 specifies principles and requirements at the organization level for qualification and reporting of greenhouse gas (GHG) emissions and removals. It includes requirements for the design, development, management, reporting and verification of an organization's GHG inventory.

ICS: 13.020.40

Price code: 14

Pages: 32

**BOS ISO 14064-2: 2006 Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements**

This part of ISO 14064 specifies principles and requirements and provides guidance at the project level for the quantification, monitoring and reporting of activities intended to cause greenhouse gas (GHG) emission reductions or removal enhancements. It includes requirements for planning a GHG project, identifying and selecting GHG sources, sinks and reservoirs relevant to the project and baseline scenario, monitoring, quantifying, documenting and reporting GHG project performance and managing data quality.

ICS: 13.020.40

Price code: 16

Pages: 40



**BOS ISO 14064-3: 2006                    Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions**

This part of ISO 14064 specifies principles and requirements and provides guidance for those conducting or managing the validation and/or verification of greenhouse gas (GHG) assertions. It can be applied to organizational or GHG project qualification, including GHG quantification, monitoring and reporting carried out in accordance with ISO 14064-1 or ISO 14064-2.

ICS: 13.020.40

Price code: 18

Pages: 48

**BOS ISO 15161: 2001                    Guidelines on the application of ISO 9001:2000 for the food and drink industry**

This International Standard gives guidance to organizations in applying the requirements of ISO 9001 during the development and implementation of a quality management system in the food and drink industry. This International Standard gives information on the possible interaction of the ISO 9000 series of standards and the hazard analysis and critical control point (HACCP) system of food safety requirements. This International Standard is not intended for certification, regulatory or contractual use.

ICS: 03.120.10; 67.020

Price code: 18

Pages: 48

**BOS ISO 15189: 2012                    Medical laboratories – Requirements for quality and competence**

This International Standard specifies requirements for quality and competence in medical laboratories. This International Standard can be used by medical laboratories in developing their quality management systems and assessing their own competence. It can also be used for confirming or recognizing the competence of medical laboratories by laboratory customers, regulating authorities and accreditation bodies.

NOTE International, national or regional regulations or requirements may also apply to specific topics covered in this International Standard.

ICS: 03.120.10

Price code: 20

Pages: 60

**BOS ISO 15489-1: 2001                    Information and documentation -- Records management -- Part 1: General**

This part of ISO 15489 provides guidance on **managing records** of originating organizations, public or private, for internal and external clients. In some countries, the management of records also applies to archives management. Archives management is not covered in this part of ISO 15489.

ICS: 01.140.20

Price code: 13

Pages: 28

**BOS ISO 15489-2: 2001                    Information and documentation -- Records management -- Part 2: Guidelines**

This part of ISO/ TR 15489 is an implementation guide to ISO 15489-1 for use by records management professionals and those charged with managing records in their organizations. It provides one methodology that will facilitate the implementation of ISO 15489-1 in all organizations that have a need to manage their records. It gives an overview of the processes and factors to consider in organizations wishing to comply with ISO 15489-1.

ICS: 01.140.20

Price code: 18

Pages: 48

**BOS ISO 15874-1: 2003                    Plastics piping systems for hot and cold water installations – Polypropylene (PP) – Specification Part 1: General**

This part of EN ISO 15874 specifies the general aspects of polypropylene (PP) 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.

ICS: 23.040.20; 91.140.60

Price code: 10

Pages: 20

**BOS ISO 15874-2: 2003           Plastics piping systems for hot and cold water installations – Polypropylene (PP) – Specification Part 2: Pipes**

This part of EN ISO 15874 specifies the characteristics of pipes made from polypropylene (PP) 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 operating pressures and temperatures appropriate to the class application (see Table 1 of EN ISO 15874-1: 2003)

ICS: 23.040.20; 91.140.60

Price code: 13

Pages: 28

**BOS ISO 19011: 2011           Guidelines for auditing management systems**

This International Standard provides guidance on auditing management systems, including the principles of auditing, managing an audit programme and conducting management system audits, as well as guidance on the evaluation of competence of individuals involved in the audit process, including the person managing the audit programme, auditor and audit teams.

It is applicable to all organizations that need to conduct internal or external audits of management systems or manage an audit programme.

The application of this International Standard to other types of audits is possible, provided that special consideration is given to the specific competence needed.

ICS: 03.120.10

Price code: 20

Pages: 56

**BOS ISO 19407:2015           Footwear — Sizing — Conversion of sizing systems**

This Technical Specification comprises three shoe size conversion tables covering the major shoe sizing systems (Mondopoint, European and United Kingdom, as well as China, Japan and United States). The tables are based on measurement of foot length, this being the logical starting point for any shoe size marking system.

ICS: 61.060

**BOS ISO 19408:2015           Footwear — Sizing — Vocabulary and terminology**

**This Technical Specification defines terms commonly used for measuring feet and lasts and for determining the size of footwear. This vocabulary complements ISO 19952, *Footwear – Vocabulary*. The term “shoe” means all types of footwear.**

ICS: 61.060

**BOS ISO 21003-1: 2008**

**Multilayer piping systems for hot and cold water installations inside buildings –Part 1: General – Specification**

This part of ISO 21003 specifies the general aspects of multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or heating systems – under specified design pressures and temperatures appropriate to the class of application.

ICS: 23.040.45; 91.140.60

Price code: 10

Pages: 20

**BOS ISO 21003-2: 2008           Multilayer piping systems for hot and cold water installations inside buildings Part 2: Pipes - Specification**

This part of ISO 21003 specifies the general aspects of multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or heating systems – under specified design pressures and temperatures appropriate to the class of application. (see Table 1 of ISO 21003-1: 2008)

ICS: 23.040.45; 91.140.60

Price code: 13

Pages: 28

**BOS ISO 21003-3: 2008                    Multilayer piping systems for hot and cold water installations inside buildings Part 3: Fittings - Specification**

This part of ISO 21003 specifies the characteristics of fittings for multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or for heating systems – under specified design pressures and temperatures appropriate to the class of application.

ICS: 23.040.45; 91.140.60

Price code: 10

Pages: 20

**BOS ISO 21003-5: 2008                    Multilayer piping systems for hot and cold water installations inside buildings – Specification Part 5: Fitness for purpose of the system**

This part of ISO 21003 specifies the characteristics of fittings for multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or for heating systems – under specified design pressures and temperatures appropriate to the class of application.

ICS: 23.040.45; 91.140.60

Price code: 10

Pages: 20

**BOS ISO 22000: 2005                    Food safety management systems – Requirements for any organization in the food chain**

This International Standard specifies requirements for a food safety management system where an organization in the food chain needs to demonstrate the ability to control food safety hazards in order to ensure that food is safe at the time of human consumption.

ICS: 67.020

Price code: 17

Pages: 44

**BOS ISO 22300:2012 (IDT)            Societal security – Terminology**

This standard contains terms and definitions applicable to societal security to establish a common understanding so that consistent terms are used.

ICS: 01.040.03; 03.100.01

Price code: 10

Pages: 20

**BOS ISO 22301:2012 (IDT)            Societal security – Business continuity management systems - Requirements**

Specifies requirements to plan, establish, implement, operate, monitor, review, maintain and continually improve a documented management system to protect against, reduce the likelihood of occurrence, prepare for, respond to, and recover from disruptive incidents when they arise.

ICS: 01.040.03; 03.100.01

Price code: 16

Pages: 36

**BOS ISO 22715:2009                    Cosmetics — Packaging and labelling**

This International Standard specifies requirements for packaging and labelling of all cosmetic products as defined according to national regulations or practices intended for sale or free distribution. National regulations can, on several points, be more strict than this International Standard.

This International Standard is intended for use on cosmetics.

NOTE For packaging and labelling of toothpastes and oral rinses, see also ISO 11609 [5] and ISO 16408 [6].

ICS: 71.100.70

**BOS ISO 22877:2004                    Castors and wheels – Vocabulary, symbols and multilingual terminology**

Defines terms and symbols relating to castors and wheels in the two official ISO languages (English and French). It gives the equivalent terms in the German, Dutch, Finnish, Italian and Swedish languages.

ICS: 53.060, 01.040.53

**BOS ISO 22878:2004 Castors and wheels – Test methods and apparatus**

Specifies the test methods and apparatus to be used to check the performance of castors and wheels.

ICS: 53.060, 97.140

**BOS ISO 26000:2012 Guidance on social responsibility**

This International Standard provides guidance to all types of organizations, regardless of their size or location, on:

- a) Concepts, terms and definitions related to social responsibility;
- b) The background, trends and characteristics of social responsibility;
- c) Principles and practices relating to social responsibility;
- d) The core subjects and issues of social responsibility;
- e) Integrating, implementing and promoting social responsible behaviour throughout the organization and, through its policies and practices, within its sphere of influence;
- f) Identifying and engaging with stakeholders; and
- g) Communicating commitments, performance and other information related to social responsibility.

ICS: 03.100.01

Price code: 25

Pages: 124

**BOS ISO 31000:2009 (IDT) Risk management – Principles and guidelines**

This standards provides principles and generic guidelines on risk management. The standards can be used by any public, private or community enterprise, association, group or individual. Therefore, this International Standard is not specific to any industry or sector.

ICS: 03.100.01

Price code: 16

Pages: 36

**BOS ISO/TR 31004:2013 (IDT) Risk management – Guidance for the implementation of ISO 31000**

This Technical Report provides guidance for organizations on managing risk effectively by implementing ISO 31000:2009. It provides:

- a structured approach for organizations to transition their risk management arrangements in order to be consistent with ISO 31000, in a manner tailored to the characteristics of the organization;
- an explanation of the underlying concepts of ISO 31000;
- guidance on aspects of the principles and risk management framework that are described in ISO 31000

ICS: 03.100.01

Price code: 18

Pages: 48

**BOS ISO Guide 73:2009 Risk management – Vocabulary**

This guide provides the definitions of generic terms related to risk management. It aims to encourage a mutual and consistent understanding of, and a coherent approach to, the description of activities relating to the management of risk, and the use of uniform risk management terminology in processes and frameworks dealing with the management of risk.

This Guide is intended to be used by:

- a) those engaged in managing risks,
- b) those who are involved in activities of ISO and

- c) developers of national or sector – specific standards, guides, procedures and codes of practice relating to the management of risk.

For principles and guidelines on risk management, reference is made to ISO 31000:2009.

ICS: 01.040.03; 03.100.01; 01.120

Price code: 10

Pages: 20

**BOS ISO/IEC 17020: 2012      Conformity assessment– Requirements for the operation of various types of bodies performing inspection**

This International Standard contains requirements for the competence of bodies performing inspection and for the impartiality and consistency of their inspection activities. It applies to inspection bodies of type A, B or C, as defined in this International Standard, and it applies to any stage of inspection.

NOTE: The stages of inspection include design stage, type examination, initial inspection, in-service inspection or surveillance.

ICS: 33.120.20

Price code:13

Pages 28

**BOS ISO/IEC 17025: 2005      General requirements for the competence of testing and calibration laboratories**

This standard specifies the general requirements for the competence to carry out tests and/or calibrations, including sampling

ICS: 03.120.20

Price code: 16

Pages 40

**BOS ISO/IEC 17799: 2005      Information technology – Security techniques – Code of practice for information security management**

This International Standard establishes guidelines and general principles for initiating, implementing, maintaining, and improving information security management in an organization. The objectives outlined in this International Standard provide general guidance on the commonly accepted goals of information security management.

ICS: 35.340

Price code: 25

Pages 132

**BOS IWA 2: 2003      Quality management systems - Guidelines for the application of ISO 9001:2000 in education**

International Workshop Agreement IWA 2:2003 provides guidelines for the application of ISO 9001:2000 in educational organizations providing educational products.

ICS: 03.120.10

Price code: 25

Pages: 94

**BOS OHSAS 18001: 2007 Occupational health and safety management systems – Requirements**

This Occupational Health and Safety Assessment Series (OHSAS) Standard specifies the requirements for an occupational health and safety (OH&S) management system, to enable an organization to control its OH&S risks and improve its OH&S performance. It does not state specific OH&S performance criteria, nor does it give detailed specifications for the design of a management system.

ICS: 13.100

Price Code: 16

Pages: 40

**BOS OHSAS 18002: 2008 Occupational health and safety management systems – Guidelines for the implementation of OHSAS 18001: 2007**

This Occupational Health and Safety Assessment Series (OHSAS) guidelines provides generic advice on the application of OHSAS 18001: 2007. It explains the underlying principles of OHSAS 18001 and describes the intent, typical inputs, processes and typical outputs, against each requirement of OHSAS 18001. OHSAS 18002 does not create additional requirements to those specified in OHSAS 18001 nor does it prescribe mandatory approaches to the implementation of OHSAS 18001.

ICS: 13.100

Price Code: 25

Pages: 92



**BOS 117: 2011 2<sup>nd</sup> ed. Pneumatic tyres for commercial vehicles and their trailers – Specification**

This specification covers new pneumatic tyres primarily designed for use by all road vehicles. It does not however, apply to,

- a) new tyres for private (passenger) cars and their trailers,
- b) tyres of a speed category below 80km/h, or
- c) tyres designed for cycles and motor cycles.

ICS: 83.160.10

Price code: 14

Pages: 32

**BOS 118: 2005 Single stage low pressure regulators for liquefied petroleum gas (LPG) – Specification**

This standard specifies performance, safety and constructional requirements for low-pressure regulators of the single stage type intended for use with liquefied petroleum gas mixtures in the vapour phase and designed for a set outlet pressure of 2.8 kPa and a flow not exceeding 10kg/h. Unless otherwise stated, all pressures given in the standard are gauge pressures.

ICS: 23.020.30

Price code: 12

Pages: 24

**BOS 63: 2009 2<sup>nd</sup> ed. Cereals – Classification and grading of sorghum grains intended for human consumption**

Specifies classes and grades of sorghum grains intended for sale in Botswana.

ICS: 67.060

Price code: 10

Pages: 20

**BOS 72: 2003 Pasteurized cow's milk**

Requirements for homogenized or unhomogenized pasteurised cow's milk intended for human consumption.

ICS: 67.100.10

Price code: 8

Pages: 16

**BOS 92: 2004 Fermented cow's milk products – Yoghurt, sour milk (madila) and buttermilk**

Requirements for yoghurt, sour milk (madila) and buttermilk derived from pasteurised cow's milk and milk products. It is not applicable to products heat treated after fermentation.

ICS: 67.100.10

Price code: 4

Pages: 8

**BOS 158: 2011 2<sup>nd</sup> ed. High penetration – resistant laminated safety glass for vehicles – Specification**

This Botswana Standard covers high penetration-resistant laminated safety glass including bullet-resistant glazing materials for use in vehicles. Note: When relevant, the provision of flat safety glass specimens for the tests in 7.6, 7.7, and 7.8 is a matter of agreement between the manufacturer and the purchaser.

ICS: 43.040.65; 81.040.30

Price code: 8

Pages: 16

**BOS 159: 2011 2<sup>nd</sup> ed. Laminated safety glass for vehicles – Specification**

This Botswana Standard covers laminated safety glass (excluding windscreens) for use in vehicles.

ICS: 43.040.65; 81.040.30

Price code: 8

Pages: 16

**BOS 160: 2011 2<sup>nd</sup> ed. Toughened safety glass for vehicles – Specification**

This standard covers toughened safety glass for use in vehicles

ICS: 43.040.65; 81.040.30

Price code: 6

Pages: 12



**BOS 186: 2006 Plastic carrier bags and flat bags – Specification**

This standard specifies requirements for carrier bags and flat bags that are made from thermo-plastic materials for use within the Republic of Botswana. This standard covers the following; domestically produced and imported plastic carrier bags, flat bags, printing requirements and the thickness of these bags. This standard does not cover the following; bread bags, refuse bags, bin liners, household plastic bags or primary packaging such as barrier bags.

ICS: 83.140.01

Price code: 4

Pages: 8

**BOS 196: 2006 Fire extinguishing media- Powders- Specification**

1.1 This standard specifies requirements for fire extinguishing powders for fires of Class A, Class B and Class C.

1.2 This standard does not cover the assessment of the performance of an extinguishing powder in a particular piece of equipment, other than the standard test extinguishers used in some of the tests.

Note: The onus is on the user to ensure compatibility between a powder and the equipment in which it is used.

ICS: 13.220.20

Price Code: 13

Pages:28

**BOS 201: 2006 Cereals and pulses – Certain pulses – Specification**

This Botswana Standard applies to the whole, shelled or split pulses defined below which are intended for human consumption. The following pulses are covered by this standard: beans of the Phaseolus spp; lentils; peas; chickpeas; field beans; cowpeas; juko bean; mung bean; groundnut/ peanut; soybean.

ICS: 67.060

Price code: 6

Pages: 12

**BOS 252: 2007 Firefighting – Portable fire extinguishers – Performance and construction**

This standard specifies the principal requirements intended to ensure the safety, reliability and performance of portable fire extinguishers. It is applicable to a fully charged extinguisher having a maximum mass of 20 kg.

Note 1: In some cases, extinguishers having a total mass of up to 25kg when fully charged may be approved, subject to local acceptance.

Note 2: Cartridge type fire extinguishers are not recommended for use, hence not covered in the standard.

ICS: 13.220.10

Price code: 19

Pages: 52

**BOS 304: 2009 Firefighting equipment – Components of underground and above ground hydrant systems**

This standard specifies requirements for major components (including the connections) of two types of hydrant assemblies.

Note: Requirements that must be specified by the purchaser are listed in Annex A

ICS 13.220.10; 23.060.99

Price code: 13

Pages: 28

**BOS 305: 2009 Firefighting equipment – Hose couplings, connectors, and branch pipe and nozzle connections**

This standard specifies requirements for:

- a) fire hose delivery couplings to fit hose of nominal diameter 45mm, 65mm, 70mm and 100mm,
- b) suction couplings to fit hose of nominal diameter 80mm, 90mm, 100mm, 115mm, 125mm, 140mm and 150mm,
- c) connectors and
- d) branch pipes and nozzle connections for delivery hose.

ICS 13.220.10; 23.040.60

Price code: 13

Pages: 28

**BOS 449: 2011 Canned fish, canned marine molluscs, canned crustaceans and other derived products - Specification**

This Botswana Standard specifies requirements for the manufacturer, production, processing and treatment of canned fish, canned fish products, canned marine molluscs products, canned crustaceans and canned crustaceans products.

ICS: 67.120.30

Price Code: 25

Pages: 80

**BOS 450: 2011 Peanut butter – Specification**

This Botswana Standard specifies requirements for peanut butter for direct human consumption

ICS: 67.080.20

Price Code: 6

Pages: 12

**BOS EN 197-1: 2000 Cement Part 1 Composition, specification and conformity criteria for common cement**

EN 197-1 defines and gives the specifications of 27 distinct common cement products and their constituents. The definition of each cement includes the proportions in which the constituents are to be combined to produce these distinct products in a range of six strength classes. The definition also includes requirements the constituents have to meet and the mechanical, physical and chemical requirements of the 27 products and strength classes. EN 197-1 also states the conformity criteria and the related rules. Necessary durability requirements are also given.

NOTE 1 In addition to the specified requirements, an exchange of additional information between the cement manufacturer and user may be helpful. The procedures for such an exchange are not within the scope of EN 197-1 but should be dealt with in accordance with national standards or regulations or may be agreed between the parties concerned.

NOTE 2 The word "cement" in EN 197-1 is used to refer only to common cements unless otherwise specified.

ICS: 91.100.10

Price code: 16

Pages: 36

## LIST OF STANDARDS CLASSIFIED BY SUBJECT

### 01.040 Vocabularies

#### 01.040.03 Services. Company organization, and management and quality. Administration. Transport. Sociology. (Vocabularies)

**BOS ISO 22300:2012 (IDT)** *ed. 1* *TC GPD 7*  
Societal security – Terminology

**BOS ISO 22301:2012 (IDT)** *ed. 1* *TC GPD 7*  
Societal security – Business continuity management systems – Requirements

**BOS ISO Guide 73:2009** *ed. 1* *TC GPD 7*  
Risk management – Vocabulary

#### 01.040.13 Environment. Health protection, safety (vocabularies)

#### 01.040.53 Materials handling equipment (Vocabularies)

**BOS ISO 22877:2004**  
Castors and wheels – Vocabulary, symbols and multilingual terminology

#### 01.040.59 Textile and leather technology (vocabularies)

**BOS ISO 3572:1976**  
Textiles - Weaves - Definitions of general terms and basic Weaves

**BOS ISO 4921:2000**  
Knitting — Basic concepts — Vocabulary

**BOS ISO 6938:2012**  
Textiles — Natural fibres — Generic names and definitions

**BOS ISO 8498:1990**  
Woven Fabric – Description of defects – Vocabulary

**BOS ISO 8499:2003**  
Knitted fabrics — Description of defects — Vocabulary

#### 01.040.65 Agriculture (Vocabularies)

**BOS ISO 5681: 1992** *ed. 1* *TCMED7*  
Equipment for crop protection – Vocabulary

#### 01.040.83 Rubber and plastics industries (Vocabularies)

**BOS 171: 2006** *ed. 1* *TC BCD 2*  
Adhesives for tiles – Specification

#### 01.040.91 Construction materials and Building (Vocabularies)

**BOS 171: 2006** *ed. 1* *TC BCD 2*  
Adhesives for tiles – Specification

**BOS ISO 13006: 1998** *ed. 1* *TC BCD 2*  
Ceramic tiles – Definitions, classification, characteristics and marking

## **01.080 Graphical symbols**

### **01.080.10 Public information symbols**

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**BOS 6-1: 2016** *ed. 2* *TC LPG*  
Symbolic safety signs – Part 1: Standard signs and general requirements

### **01.080.20 Graphical symbols for use on specific equipment**

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**BOS ISO 11684: 1995** *ed. 1* *TC LPG*  
Tractors, machinery for agriculture and forestry, powered lawn and garden equipment -- Safety signs and hazard pictorials -- General principles

### **01.080.30 Graphical symbols for use on mechanical engineering & construction drawings, diagrams, plans, maps & in relevant technical product documentation**

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No current standards

### **01.120 Standardization. General rules**

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**BOS ISO Guide 73:2009** *ed. 1* *TC GPD 7*  
Risk management – Vocabulary

## **01.140 Information sciences. Publishing**

### **01.140.20 Information Sciences**

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**BOS ISO 15489-1: 2001** *ed. 1*  
Information and documentation -- Records management -- Part 1: General

**BOS ISO 15489-2: 2001** *ed. 1*  
Information and documentation -- Records management -- Part 2: General

## **03.100 Company organization and management**

### **03.080.30 Services for consumers**

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**BOS 50-1: 2014 3<sup>rd</sup> ed.** *ed. 3* *TC GPD2*  
Hotels and related establishments – Grading requirements – Part 1: Fully serviced hotels - Specification

**BOS 50-2: 2014 3<sup>rd</sup> ed.** *ed. 3* *TC GPD2*  
Hotels and related establishments – Grading requirements – Part 2: Selected serviced hotels - Specification

**BOS 50-3: 2014 3<sup>rd</sup> ed.** *ed. 3* *TC GPD2*  
Hotels and related establishments – Grading requirements – Part 3: Game lodges and tented camps - Specification

**BOS 50-4: 2014 3<sup>rd</sup> ed.** *ed. 3* *TC GPD2*  
Hotels and related establishments – Grading requirements – Part 4: Bed and Breakfast – Specification

**BOS 50-5: 2014 3<sup>rd</sup> ed.** *ed. 3* *TC GPD2*  
Hotels and related establishments – Grading requirements – Part 5: Guesthouses - Specification

**BOS 50-6: 2014 3<sup>rd</sup> ed.** *ed. 3* *TC GPD2*

### **03.100.01 Company organization and management in general**

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<b>BOS ISO 22300:2012 (IDT)</b> Societal security – Terminology	<i>ed. 1</i>	<i>TC GPD 7</i>
<b>BOS ISO 22301:2012 (IDT)</b> Societal security – Business continuity management systems – Requirements	<i>ed. 1</i>	<i>TC GPD 7</i>
<b>BOS ISO 26000:2012</b> Guidance on social responsibility	<i>ed. 1</i>	<i>TC GPD 7</i>
<b>BOS ISO 31000:2009 (IDT)</b> Risk management – Principles and guidelines	<i>ed. 1</i>	<i>TC GPD 7</i>
<b>BOS ISO/TR 31004:2009 (IDT)</b> Risk management – Guidance for the implementation of ISO 31000	<i>ed. 1</i>	<i>TC GPD 7</i>
<b>BOS ISO Guide 73:2009</b> Risk management – Vocabulary	<i>ed. 1</i>	<i>TC GPD 7</i>

### **03.100.30 Management of human resources**

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## **03.120 Quality**

### **03.120.10 Quality management and quality assurance**

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<b>BOS ISO 9000: 2005</b> Quality management systems – Fundamentals and vocabulary	<i>ed. 2</i>	<i>TC GPD 1</i>
<b>BOS ISO 9001: 2015 (IDT) 5<sup>th</sup> ed</b> Quality management systems: Requirements	<i>ed. 5</i>	<i>TC GPD 1</i>
<b>BOS ISO 9004: 2009</b> Managing for the sustained success of an organization – A quality management approach	<i>ed. 3</i>	<i>TC GPD 1</i>
<b>BOS ISO 10002: 2004</b> Quality Management – Customer satisfaction – Guidelines for complaints handling in organizations	<i>ed. 1</i>	<i>TC GPD 1</i>
<b>BOS ISO 14001: 2015</b> Environmental management systems – Requirements with guidance for use	<i>ed. 3</i>	<i>TC EMD 1</i>
<b>BOS ISO 15189: 2012</b> Medical laboratories – Requirements for quality and competence	<i>ed. 2</i>	<i>TC GPD 1</i>
<b>BOS ISO/TR 10013: 2001</b> Guidelines for quality management system documentation	<i>ed. 1</i>	
<b>BOS ISO 15161: 2001</b> Guidelines on the application of ISO 9001:2000 for the food and drink industry		
<b>BOS ISO 19011: 2011</b> Guidelines for auditing management systems	<i>ed. 2</i>	<i>TC GPD 1</i>

### **03.120.20 Product and company certification. Conformity assessment**

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<b>BOS ISO/IEC 17025: 2005</b> General requirements for the competence of testing and calibration laboratories	<i>ed. 1</i>	
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### **03.120.30 Application of statistical methods**

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**BOS ISO 2859-1: 1999** *ed. 2*  
Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot – by – lot inspection

**BOS ISO 2859-2: 1985** *ed. 1*  
Sampling procedures for inspection by attributes – Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection

**BOS ISO 2859-3: 1991** *ed. 1*  
Sampling procedures for inspection by attributes – Part 3: Skip – lot sampling procedures

### **03.200 Leisure, Tourism**

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**BOS 50-7:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 7: Remote camping grounds – Specification

**BOS 50-8:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 7: Urban camping grounds – Specification

**BOS 50-9:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 9: Wilderness camping grounds – Specification

**BOS 50-10:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 10: Participation tented mobile safaris – Specification

**BOS 50-11:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 11: Non Participation tented mobile safaris – Specification

### **07.060 Geology, Geodesy, Geography**

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No current standards

### **07.100.20 Microbiology of water**

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**BOS ISO 6222: 1999** *ed. 2* *TC EMD 2*  
Water quality – Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture medium

**BOS ISO 7704:1985**  
Water quality – Evaluation of membrane filters used for microbiological analyses

### **07.100.30 Food microbiology**

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**BOS ISO 11866-1: 2005** *ed. 1* *TC EMD 2*  
Milk and milk products – Enumeration of presumptive *Escherichia coli* – Part 2: Most probable number technique using 4-methylumbelliferyl- $\beta$ -D-glucuronide (MUG).

**BOS ISO 11866-2: 2005** *ed. 1* *TC EMD 2*  
Milk and milk products – Enumeration of presumptive *Escherichia coli* – Part 2: Colony-count technique at 44 °C using membranes

## **11 Health Care Technology**

### **11.100 Laboratory medicine**

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No current standards

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**11.100.01 Laboratory medicine in general**

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**BOS ISO 15189: 2007** *ed. 1* *TC GPD 1*  
Medical laboratories -- Particular requirements for quality and competence

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**11.140 Hospital Equipment**

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**No current standards**

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**11.180.01 Aids for disabled & handicapped persons in general**

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**11.200 Birth control. Mechanical contraceptives**

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**BOS ISO 4074: 2002** *ed. 1* *TC CD6*  
Natural latex rubber condoms – Requirements and test methods

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**13.020 Environmental protection**

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**13.020.10 Environmental management**

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**BOS 498: 2012** *ed. 1* *TC EMD 1*  
Ambient air quality – Limits for common pollutants

**BOS ISO 14001: 2015** *ed.3* *TC EMD 1*  
Environmental management systems – Requirements with guidance for use

**BOS ISO 14004: 2004** *ed. 2* *TC EMD 1*  
Environmental management systems - General guidelines on principles, systems and supporting techniques

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**13.020.40 Pollution, pollution control and conservation**

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**BOS ISO 14064-1: 2006** *ed. 1* *TC EMD 1*  
Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements

**BOS ISO 14064-2: 2006** *ed. 1* *TC EMD 1*  
Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements

**BOS ISO 14064-3: 2006** *ed. 1* *TC EMD 1*  
Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions

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**13.020.50 Ecolabelling**

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**13.020.60 Product life-cycles**

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**13.040.50 Transport exhaust emissions**

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**BOS 134: 2005** *ed. 1* *TC MED 5*  
The measurement of motor vehicle exhaust emissions – Code of practice

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**13.060 Water quality**

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**BOS 260-2: 2008** *ed. 1* *TC BCD 5*  
Fibre cement pipes for drains and sewers Part 2: Manholes and inspection chambers – Specification

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## 13.060.01 Water quality in general

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### No current standards

## 13.060.10 Water of natural resources

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<b>BOS ISO 5667 – 5: 2006</b>	<i>ed. 2</i>	<i>TC EMD 2</i>
Water quality – Sampling - Part 5: Guidance on sampling of drinking water and water used from treatment work and piped distribution systems		
<b>BOS ISO 5667 – 6: 2005</b>	<i>ed. 2</i>	<i>TC EMD 2</i>
Water quality – Sampling - Part 6: Guidance on sampling of rivers and streams.		
<b>BOS ISO 5667 – 11: 2009</b>	<i>ed. 2</i>	<i>TC EMD 2</i>
Water quality – Sampling - Part 11: Guidance on sampling of groundwaters.		

## 13.060.20 Drinking water

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<b>BOS 32: 2015 3<sup>rd</sup> ed.</b>	<i>ed. 3</i>	<i>TC EMD 2</i>
Drinking water - Specification		
<b>BOS 143: 2011 3<sup>rd</sup> ed.</b>	<i>ed. 3</i>	<i>TC EMD 2</i>
Bottled water other than natural mineral water – Specification		
<b>BOS 262: 2011</b>	<i>ed. 2</i>	<i>TC EMD 2</i>
Bottled natural water - Specification		
<b>BOS ISO 5667–10: 1992</b>	<i>ed. 1</i>	<i>TC EMD2</i>
Water quality – Sampling – Part 10: Guidance on sampling of waste waters		
<b>BOS 306: 2008</b>	<i>ed. 1</i>	<i>TC EMD2</i>
Bottled water – Code of hygiene practice		
<b>BOS 463: 2011</b>	<i>ed. 1</i>	<i>TC EMD2</i>
Water quality for irrigation – Specification		

## 13.060.30 Sewage water

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### No current standards

## 13.060.45 Examination of water in general

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<b>BOS 93: 2012 2<sup>nd</sup> ed.</b>	<i>ed.2</i>	<i>TC EMD2</i>
Waste water – Physical, microbiological and chemical requirements - Specification		
<b>BOS 365: 2010</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Drinking water for livestock and poultry – Specification		
<b>BOS ISO 5667–1: 2006</b>	<i>ed. 2</i>	<i>TC EMD 2</i>
Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques		
<b>BOS ISO 5667–3: 2003</b>	<i>ed. 3</i>	<i>TC EMD 2</i>
Water quality – Sampling – Part 1: Guidance on the preservation and handling of water samples		
<b>BOS ISO 5667 – 4: 1987</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Sampling - Part 4: Guidance on sampling from lakes, natural and man – made lakes.		
<b>BOS ISO 5667–5: 2006</b>	<i>ed. 2</i>	<i>TC EMD 2</i>
Water quality–Sampling - Part 4: Guidance on sampling of drinking water from treatment work and piped distribution systems		
<b>BOS ISO 5667–6: 2005</b>	<i>ed. 2</i>	<i>TC EMD 2</i>



Water quality–Sampling - Part 6: Guidance on sampling of rivers and streams.

**BOS ISO 5667–11: 2009** *ed. 1* *TC EMD 2*  
Water quality–Sampling - Part 11: Guidance on sampling of groundwaters

**BOS ISO 6461-2: 1986** *ed. 1* *TC EMD 2*  
Water quality – Detection and enumeration of the spores of sulphide reducing anaerobes (clostridia) – Part 2:  
Method by membrane filtration

**BOS ISO 7899-1: 1998** *ed. 2* *TC EMD 2*  
Water quality – Detection and enumeration of intestinal enterococci in surface and waste water – Part 1:  
Miniaturized method (Most Probable Number) by inoculation in liquid medium

### **13.060.50 Examination of water for chemical substances**

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**BOS 38: 2001** *ed. 1* *TC EMD 2*  
Water quality – Determination of colour

**BOS 82: 2004** *ed. 1* *TC BCD 5*  
Polypropylene pressure pipes - Specification.

**BOS 83: 2004** *ed. 1* *TC BCD5*  
Flexible polyvinyl chloride garden hose - Specification.

**BOS 94: 2004** *ed. 1* *TC BCD5*  
Glass-fibre-reinforced thermosetting plastic (GRP) pipes – Specification Part 1: Pipes for water supply, sewerage  
and drainage

**BOS 123: 2005** *ed.1* *TC EMD 2*  
Water quality – Determination of manganese by persulphate method.

**BOS 124: 2005** *ed.1* *TC EMD 2*  
Water quality – Determination of manganese by atomic absorption spectrometry

**BOS ISO 5666: 1984** *ed. 1* *TC EMD 2*  
Water quality – Determination of mercury.

**BOS ISO 5666-3:1984** *ed. 1* *TC EMD 2*  
Water quality – Determination of total mercury by flameless atomic absorption spectrometry- Part 3: Method after  
digestion with bromine.

**BOS ISO 5961: 1994** *ed. 2* *TC EMD 2*  
Water quality – Determination of cadmium by atomic absorption spectrometry.

**BOS ISO 6058: 1984** *ed. 1* *TC EMD 2*  
Water quality – Determination of calcium content – EDTA titrimetric method.

**BOS ISO 6059: 1984** *ed. 1* *TC EMD 2*  
Water quality – Determination of the sum of calcium and magnesium – EDTA titrimetric method

**BOS ISO 6222: 1999** *ed. 1* *TC EMD 2*  
Water quality – Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture  
medium

**BOS ISO 7393-1: 1985** *ed. 1* *TC EMD 2*  
Water quality – Determination of free chlorine and total chlorine – Part 1: Titrimetric method using N,N-diethyl-1,4-  
phenylenediamine.

**BOS ISO 7393-2: 1985** *ed. 1* *TC EMD 2*  
Water quality – Determination of free chlorine and total chlorine – Part 2: Colorimetric method using N,N-diethyl-  
1,4-phenylenediamine, for routine control purposes.

**BOS ISO 7393-3: 1990** *ed. 2* *TC EMD 2*  
Water quality – Determination of free chlorine and total chlorine – Part 3: Iodometric titration method for the  
determination of total chlorine.

<b>BOS ISO 7890-1: 1986</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of nitrate – Part 1: 2,6 – Dimethylphenol spectrometric method		
<b>BOS ISO 7890-2: 1986</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of nitrate – Part 2: 4 – Fluorophenol spectrometric method after distillation		
<b>BOS ISO 7890-3: 1988</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of nitrate – Part 3: Spectrometric method using sulfosalicylic acid.		
<b>BOS ISO 9964-1: 1993</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of potassium and sodium – Part 1: Determination of sodium by atomic absorption spectrometry (AAS)		
<b>BOS ISO 9964-2: 1993</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of potassium and sodium – Part 2: Determination of and potassium by atomic absorption spectrometry (AAS)		
<b>BOS ISO 11969: 1996</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of arsenic – Atomic absorption spectrometric method (hydride technique)		
<b>BOS ISO 12020: 1997</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of aluminium – Atomic absorption spectrometric methods		

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### **13.060.60 Examination of physical properties of water**

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<b>BOS 125:2005</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality - Determination of dissolved solids		
<b>BOS ISO 7888: 1985</b>	<i>ed. 1</i>	<i>TC EMD 2</i>
Water quality – Determination of electrical conductivity.		

### **13.100 Occupational safety. Industrial hygiene**

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<b>BOS 6-1: 2016</b>	<i>ed. 2</i>	<i>TC LPG</i>
Symbolic safety signs – Part 1: Standard signs and general requirements		
<b>BOS 231: 2006</b>	<i>ed. 1</i>	<i>TC BCD 7</i>
Health, safety and environmental guidelines for the construction and operation of timber treatment plants – Code of practice		
<b>BOS OHSAS 18001: 2007</b>	<i>ed. 1</i>	<i>TC CD 4</i>
Occupational health and safety management systems – Requirements		
<b>BOS OHSAS 18002: 2008</b>	<i>ed. 1</i>	<i>TC CD 4</i>
Occupational health and safety management systems – Guidelines for the implementation of OHSAS 18001: 2007		

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### **13.120 Domestic safety**

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### **13.180 Ergonomics**

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<b>BOS ISO 7730:2005</b>
Ergonomics of the thermal environment – Analytical determination and interpretation of thermal comfort using calculations of the PMV and PPD indices and local thermal comfort criteria.

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### 13.220.10 Fire-fighting

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**BOS 5: 2009 2<sup>nd</sup> ed.**

Fire hose reels (with semi-rigid hose) - Specification *ed. 1* *TC MED 6*

**BOS 65-1: 2003**

*ed. 1* *TC MED 6*  
The reconditioning of fire – fighting equipment Part 1: Portable rechargeable fire extinguishers.

**BOS 65-2: 2003**

*ed. 1* *TC MED 6*  
The reconditioning of fire fighting equipment – Part 2: Fire hose reels.

**BOS 252: 2007**

*ed. 1* *TC MED 6*  
Fire fighting – Portable fire extinguishers – Performance and construction

**BOS 304: 2009**

*ed. 1* *TC MED 6*  
Fire fighting equipment – Components of underground and above ground hydrant systems

**BOS 305: 2009**

*ed. 1* *TC MED 6*  
Fire fighting equipment – Hose couplings, connectors, and branch pipe and nozzle connections

### 13.220.20 Protection against fire

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**BOS 65-2:2015 2nd ed.**

*ed.2* *TC MED 6*  
The production of reconditioned fire-fighting equipment Part 2: Fire hose reels and above-ground hydrants

**BOS 196: 2006**

*ed. 1* *TC MED 6*  
Fire extinguishing media- Powders- Specification

**BOS 394: 2010**

*ed. 1* *TC MED 4*  
Fire-resistant record protection equipment – Specification

**BOS 396: 2010**

*ed. 1* *TC MED 4*  
Fire resisting door units for record rooms – Specification

**BOS 397: 2010**

*ed. 1* *TC MED 4*  
Fire doors and fire shutters – Specification

### 13.300 Protection against dangerous goods

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**BOS 66:2014**

*ed. 1*  
Globally harmonized system of classification and labelling of chemicals (GHS)

### 13.310 Protection against crime

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**BOS 334: 2010**

*ed. 1* *TC MED 4*  
Servicing, repair and reconditioning of safes, strong room doors, vault doors and fire resistant equipment – Code of practice

**BOS 393: 2010**

*ed. 1* *TC MED 4*  
Strong room and vault doors- Specification

**BOS 395-2: 2010**

*ed. 1* *TC MED 4*  
Storage of firearms and ammunition Part 2: Strongrooms – Specification

**BOS 404: 2010**

*ed. 1* *TC MED 4*  
The construction of strongrooms – Code of practice

### 13.340.10 Protective clothing

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**BOS 317: 2009**

*ed. 1* *TC CD 4*  
Coats and jackets (protective, unlined) – Specification

**BOS 455: 2010** *ed. 1* *TC CD 4*  
Boiler suits and workwear suits – Specification

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**13.340.20 Head protective equipment**

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**BOS ISO 3873: 1977** *ed. 1*  
Industrial safety helmets

**BOS ISO 4849: 1981** *ed. 1*  
Personal eye-protectors – Specifications

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**13.340.40 Hand and arm protection**

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**13.340.99 Other protective equipment**

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No current standards

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**17 Metrology and measurement, physical phenomena**

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**17.040 Linear and angular measurements**

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**17.040.20 Properties of surfaces**

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**BOS ISO 1772:1975**  
Laboratory crucibles in porcelain and silica

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**17.060 Measurements of volume, mass, density, viscosity**

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**BOS ISO 384:2015**  
Laboratory glass and plastics ware — Principles of design and construction of volumetric instruments

**BOS ISO 385:2005**  
Laboratory glassware — Burettes

**BOS ISO 648:2008**  
Laboratory glassware — Single-volume pipettes

**BOS ISO 835:2007**  
Laboratory glassware — Graduated pipettes

**BOS ISO 1042:1998**  
Laboratory glassware — One-mark volumetric flasks

**BOS ISO 1769:1975**  
Laboratory glassware - Pipettes - Colour coding

**BOS ISO 3819:2015**  
Laboratory glassware — Beakers

**BOS ISO 7056:1981**  
Plastics laboratory ware – Beaker

**BOS ISO 7712:1983**  
Laboratory glassware – Disposable Pasteur pipettes

## **17.140.01 Acoustic measurements and noise abatement in general**

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**BOS 575: 2013** *ed. 1* *TC MED 1*

Maximum permissible limits for environmental noise

## **17.140.30 Noise emitted by means of transport**

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**BOS 121: 2005** *ed. 1* *TC MED 5*

The measurement of noise emitted by road vehicles when stationary – Code of practice

**BOS 122: 2005** *ed. 1* *TC MED 5*

Engine speed (S values), reference sound levels and permissible sound levels of stationary vehicles – Code of practice

## **17.140.50 Electroacoustics**

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**BOS IEC 60118-7: 1983** *ed. 1*

Hearing aids – Part 7: Measurement of the performance characteristics of hearing aids for quality inspection for delivery purposes

## **19.120 Particle size analysis. Sieving**

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No current standards

## **21 Mechanical systems and components for general use**

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### **21.060.50 Pins, nails**

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**BOS 316: 2009** *ed. 1* *TC MED 4*

Mild steel nails - Specification

### **21.100 Bearings**

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No current standards

#### **21.100.01 Bearings in general**

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No current standards

## **23.020 Fluid storage devices**

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### **23.020.01 Fluid storage devices in general**

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**BOS 108: 2005** *ed. 1* *TC BCD 5*

Rotational moulded polyethylene water storage tanks - Specification

#### **23.020.10 Stationary containers & tanks**

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**BOS 177: 2006** *TC BCD 5*

Glass-fibre reinforced plastics sectional tanks for cold water storage – Specification

**BOS 705: 2016** *ed. 1* *TC MED 10*

Steel tanks for flammable and combustible liquids – Specification

#### **23.020.20 Vessels and containers mounted on vehicles**

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No current standards

## 23.020.30 Pressure vessels, gas cylinders

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### BOS 3-1: 2002

TC MED 2

The handling, storage & distribution of liquefied petroleum gas in domestic, commercial & industrial installations – Part 1: Liquefied petroleum gas installations involving gas storage containers of individual water capacity not exceeding 500 l & a combined water capacity not exceeding 3000 l per installation

### BOS 3-4: 2005

TC MED 2

The handling, storage & distribution of liquefied petroleum gas in domestic, commercial & industrial installations- Part 4: Transportation of LPG in bulk by road – Code of practice

### BOS 3-3: 2011

TC MED 2

The handling, storage and distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations – Part 3: Liquefied petroleum gas (LPG) installations involving storage vessels of individual water capacity exceeding 500 l – Specification

### BOS 3 – 7: 2012

The handling, storage and distribution of liquefied petroleum gas in domestic, commercial and industrial institutions - Part 7: Storage and filling sites for refillable liquefied petroleum gas (LPG) containers of capacity not exceeding 48kg

### BOS 118: 2005

ed. 1

TC MED 5

Single stage low pressure regulators for liquefied petroleum gas (LPG) – Specification

### BOS 255:2007

ed. 1

MED 2

Metallic hose assemblies for liquid petroleum gases and liquefied natural gases — Specification

### BOS ISO 4706: 1989

ed. 1

TC MED 2

Refillable welded steel gas cylinders

## 23.040 Pipeline components and pipelines

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### 23.040.01 Pipeline components & pipelines in general

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No current standards

### 23.040.10 Iron and steel pipes

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No current standards

### 23.040.20 Plastics pipes

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#### BOS 78: 2004

ed. 1

TC BCD 5

Unplasticized polyvinyl chloride (PVC-U) soil, waste and vent pipes and Pipe fittings - Specification.

#### BOS 80: 2004

ed. 1

TC BCD 5

Unplasticized polyvinyl chloride (PVC-U) sewer and drainpipes and pipe fittings – Specification.

#### BOS 94-2: 2008

ed. 1

TC BCD 5

Glass fibre-reinforced thermosetting plastics (GRP) pipes Part 2: Pipes, fittings, and joint assemblies for the conveyance of hazardous chemical substances in industrial applications – Specification.

#### BOS 94-3: 2008

ed. 1

TC BCD 5

Glass fibre-reinforced thermosetting plastics (GRP) pipes Part 3: Pipes, fittings, and ancillaries for underground (buried) fire protection services – Specification.

#### BOS ISO 161-1: 1996

ed. 3

TC BCD 5

Thermoplastics pipes for the conveyance of fluids -- Nominal outside diameters and nominal pressures -- Part 1: Metric series

#### BOS ISO 4427-1: 2007

ed. 1

TC BCD 5

Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 1: General

<b>BOS ISO 4427-2: 2007</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 2: Pipes – Specification		
<b>BOS ISO 4427-3: 2007</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 3: Fittings		
<b>BOS ISO 4427-5: 2007</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 5: Fitness for purpose of the system – Specification		

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### **23.040.40 Metal fittings**

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<b>BOS 1: 1998</b>	<i>ed. 1</i>	<i>TC MED1</i>
Water taps (metallic)		

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### **23.040.45 Plastic fittings**

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<b>BOS ISO 21003-1: 2008</b>	<i>ed. 1</i>	<i>TC BCD5</i>
Multilayer piping systems for hot and cold water installations inside buildings –Part 1: General – Specification		
<b>BOS ISO 21003-2: 2008</b>	<i>ed. 1</i>	<i>TC BCD5</i>
Multilayer piping systems for hot and cold water installations inside buildings Part 2: Pipes – Specification		
<b>BOS ISO 21003-3: 2008</b>	<i>ed. 1</i>	<i>TC BCD5</i>
Multilayer piping systems for hot and cold water installations inside buildings Part 3: Fittings - Specification		
<b>BOS ISO 21003-5: 2008</b>	<i>ed. 1</i>	<i>TC BCD5</i>
Multilayer piping systems for hot and cold water installations inside buildings – Specification Part 5: Fitness for purpose of the system		

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### **23.040.50 Pipes and fittings of other materials**

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<b>BOS 73: 2011</b>	<i>ed. 2</i>	<i>TC BCD 4</i>
Concrete non-pressure pipes – Specification		
<b>BOS 75: 2011 2<sup>nd</sup> ed.</b>	<i>ed. 2</i>	<i>TC BCD 4</i>
Reinforced concrete pressure pipes - Specification		

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### **23.040.60 Flanges, couplings and joints**

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<b>BOS 305: 2009</b>	<i>ed. 1</i>	<i>TC MED 6</i>
Fire fighting equipment – Hose couplings, connectors, and branch pipe and nozzle connections		

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### **23.040.70 Hoses and hose assemblies**

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<b>BOS 255:2007</b>	<i>ed. 1</i>	<i>MED 2</i>
Metallic hose assemblies for liquid petroleum gases and liquefied natural gases — Specification		
<b>BOS ISO 2928:2003</b>	<i>ed.1</i>	<i>MED 2</i>
Rubber hoses and hose assemblies for liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas up to 25 bar (2,5 MPa) -- Specification		

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### **23.040.80 Seals for pipe and hose assemblies**

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<b>BOS ISO 6927: 1981</b>	<i>ed. 1</i>	<i>TC BCD 2</i>
Building construction -- Jointing products -- Sealants – Vocabulary		

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### **23.060.99 Other valves**

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<b>BOS 304: 2009</b>	<i>ed. 1</i>	<i>TC MED 6</i>
Fire fighting equipment – Components of underground and above ground hydrant systems		

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**23.080 Pumps**

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No current standards

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**23.120 Ventilators. Fans. Air-conditioners**

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No current standards

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**25.160 Welding, brazing and soldering**

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**25.160.20 Welding consumables**

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**25.220.10 Surface treatment**

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No current standards

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**25.220.40 Metallic coatings**

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No current standards

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**25.220.60 Organic coatings**

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No current standards

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**27.060.10 Liquid and solid fuel burners**

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**BOS 55: 2002**

Coal burning appliances

*ed. 1*

*TC MED 3*

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**27.060.20 Gas fuel burners**

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No current standards

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**27.160 Solar Energy Engineering**

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**BOS 2 - 1: 2005 2<sup>nd</sup> ed.**

Code of Practice for photovoltaic energy systems design and installation

*ed. 2*

*TC EED 1*

**BOS 13-1: 2000**

Solar heating systems for hot water – Part 1: Direct and indirect systems – Code of practice

*ed. 1*

*TC EED 1*

**BOS 13-2: 2000**

Solar heating systems for hot water – Part 2: Integral collector-tank system – Code of practice

*ed. 1*

*TC EED 1*

**BOS 54: 2002**

Domestic solar heating systems for hot water – On site test method – Thermal performance

*ed. 1*

*TC EED 1*

**BOS 68-1: 2005**

Solar photovoltaic energy systems components – Part 1: Integrated charge controller-inverter.

*ed. 2*

*TC EED 1*

**BOS 68-2: 2005**

Solar photovoltaic energy system components – Part 2: Charge controller

*ed. 2*

*TC EED 1*

**BOS 71: 2004**

Domestic solar heating system for hot water - Collector - Specification.

*ed. 1*

*TC EED 4*

**BOS 151: 2005**

Industrial solar heating systems for hot water – On site test method – thermal performance

*ed. 1*

*TC EED 4*



- BOS ISO 9459-1: 1993** *ed. 1* *TC EED 1*  
Solar heating – Domestic water heating systems – Part 1: Performance rating procedure using indoor test methods
- BOS ISO 9459-2: 1995** *ed. 1* *TC EED 1*  
Solar heating – Domestic water heating systems – Part 2: Outdoor test methods for system performance characterization and yearly performance prediction of solar-only systems
- BOS ISO 9459-3: 1997** *ed. 1* *TC EED 1*  
Solar heating – Domestic water heating systems – Part 3: Performance test for solar plus supplementary systems
- BOS ISO 9806-1: 1994** *ed. 1* *TC EED 1*  
Test method for solar collectors – Part 1: Thermal performance of glazed liquid heating collectors including pressure drops
- BOS ISO 9806-2: 1995** *ed. 1* *TC EED 1*  
Test method for solar collectors – Part 2: Qualification test procedures
- BOS IEC 61194: 1992** *ed. 1* (7)  
Characteristic parameters of stand-alone photovoltaic systems.
- BOS IEC 61215: 2005** *ed. 1* (18)  
Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval.

## **27.200 Refrigeration technology**

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**No current standards**

## **27.220 Heat recovery. Thermal insulation**

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- BOS ISO 9229:2007**  
Thermal insulation – Vocabulary
- BOS ISO 9251:1987**  
Thermal insulation – Heat transfer conditions and properties of Materials – Vocabulary
- BOS ISO 9288:2007**  
Thermal insulation – Heat transfer by radiation – Physical quantities and definitions
- BOS ISO 9346:2007**  
Hydrothermal performance of buildings and building materials – Physical quantities for mass transfer - Vocabulary

## **29.060.20 Cables**

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- BOS 589-1:2014** *ed. 1* *TC EED 2*  
Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/ 3 300 V) — Part 1: Packaging and marking — Requirements
- BOS 589-2:2014** *ed. 1* *TC EED 2*  
**Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V) – Part 2: Wiring cable - Specification**
- BOS IEC 60227-1: 1998** *ed. 2* (10)  
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements.
- BOS IEC 60227-2: 2003** *ed. 2* (6)  
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 2: Test methods.
- BOS IEC 60227-3: 1997** *ed. 2* (8)  
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part3: Non-sheathed cables for fixed wiring.

## **29.120 Electrical accessories**

## 29.120.10 Conduits for electrical purposes

### 29.120.30 Plugs, socket Outlets, couplers

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- BOS 41-1: 2001** *ed. 1* *TC EED 2*  
13 A plugs, socket – outlets, adaptors and connection units – Part 1: Rewirable & non-rewirable 13 A fused plugs
- BOS 41-2: 2001** *ed. 1* *TC EED 2*  
13 A plugs, socket – outlets, adaptors and connection units – Part 2: switched and unswitched socket – outlets.
- BOS 41-3: 2001** *ed. 1* *TC EED 2*  
13 A plugs, socket – outlets, adaptors and connection units – Part 3: Adaptors.
- BOS 41-4: 2009** *ed. 1* *TC EED 2*  
13 A plugs, socket – outlets, adaptors and connection units – Part 4: Switched and unswitched 13 A fused connection units – Specification.

### 29.140.20 Incandescent lamps

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- BOS 303-1: 2008** *ed. 1* *TC MED 5*  
Light for motor vehicles – Part 1: Incandescent lamps – Specification
- BOS 303-2: 2008** *ed. 1* *TC MED 5*  
Lights for motor vehicles - Part 2 - Headlights
- BOS 303-3: 2008** *ed. 1* *TC MED 5*  
Lights for motor vehicles - Part 3 - Secondary lights

### 29.140.40 Luminaires

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- BOS IEC 60598-1: 2003** *ed. 6*  
Luminaires - Part 1: General requirements and tests Edition: 6.0
- BOS IEC 60598-2-1: 1979** *ed. 1*  
Luminaires – Part 2: Particular requirements – Section One – Fixed general purpose luminaires
- BOS IEC 60598-2-2: 2002** *ed. 2*  
Luminaires – Part 2: Particular requirements –Section 2: recessed luminaires
- BOS IEC 60598-2-3: 2002** *ed. 3*  
Luminaires – Part 2-3: Particular requirements – Luminaires for road and street lighting
- BOS IEC 60598-2-4: 1997** *ed. 2*  
Luminaires – Part 2: Particular requirements – Section 4: Portable general purpose luminaries
- BOS IEC 60598-2-5: 1997** *ed. 2*  
Luminaires – Part 2-5: Particular requirements – Floodlights
- BOS IEC 60598-2-6: 1994** *ed. 1*  
Luminaires – Part 2: Particular requirements – Section 6: Luminaires with built-in transformers for filament lamps
- BOS IEC 60598-2-7:1982** *ed. 1*  
Luminaires – Part 2: Particular requirements – Section Seven – Portable luminaires for garden use
- BOS IEC 60598-2-8:** *ed. 2*  
Luminaires – Part 2-8: Particular requirements – Handlamps
- BOS IEC 60598-2-9: 1987** *ed. 2*  
Luminaires – Part 2: Particular requirements – Section Nine – Photo and film luminaires (non-professional)
- BOS IEC 60598-2-10: 2003** *ed. 2*  
Luminaires – Part 2: Particular requirements – Section Ten – Potable child-appealing luminaries
- BOS IEC 60598-2-17: 1984** *ed. 1*

Luminaires – Part 2: Particular requirements – Section Seventeen – Luminaires for stage lighting, television and film studios (outdoor and indoor)

**BOS IEC 60598-2-18: 1993** *ed. 1*

Luminaires – Part 2: Particular requirements – Section 18: Luminaires for swimming pools and similar applications

**BOS IEC 60598-2-19: 1981** *ed. 1*

Luminaires – Part 2: Particular requirements – Section Nineteen: Air-handling luminaires (safety requirements)

**BOS IEC 60598-2-20: 2002** *ed. 1*

Luminaires – Part 2-20: Particular requirements – Lighting chains

**BOS IEC 60598-2-22: 2002** *ed. 1*

Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting

**BOS IEC 60598-2-23: 2001** *ed. 1*

Luminaires – Part 2-23: Particular requirements – Extra low voltage lighting systems for filament lamps

**BOS IEC 60598-2-24: 1997** *ed. 1*

Luminaires – Part 2-24: Particular requirements – Luminaires with limited surface temperatures

**BOS IEC 60598-2-25: 1994** *ed. 1*

Luminaires – Part 2: Particular requirements – Section 25: Luminaires for use in clinical areas of hospitals and health care buildings

## **29.180 Transformers, reactors**

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**BOS 563:2013** *ed. 1* *TC EED2*

Distribution of transformers - Specification

## **29.220.20 Acid secondary cells and batteries**

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**BOS IEC 60896-11: 2002** *ed. 1.0b*

Stationary lead-acid batteries – Part 11: Vented types – General requirements and method test.

**BOS IEC 60896-21: 2002** *ed. 1.0b*

Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test.

**BOS IEC 60896-22: 2004** *ed. 1.*

Stationary lead-acid batteries – Part 22: Valve regulated types – Requirements

**BOS IEC 61056-2: 2002** *ed. 1.*

General purpose lead-acid batteries (Valve regulated types) – Part 2: Dimensions, terminals and marking

**BOS IEC 61056-22: 2002** *ed. 2.0b*

General purpose lead-acid batteries (Valve regulated types) – General requirements and functional characteristics – Methods of test.

## **29.240.20 Power transmission & distribution lines**

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**BOS 513-1: 2012** *ed. 1.* *TC EED 2*

Conductors for overhead electrical transmission lines – Part 1: Copper wires and stranded copper conductors

**BOS 513-2: 2012** *ed. 1.* *TC EED 2*

Conductors for overhead electrical transmission lines – Part 2: Stranded aluminium conductors

**BOS 513-3: 2012** *ed. 1.* *TC EED 2*

Conductors for overhead electrical transmission lines – Part 3: Aluminium conductors, steel reinforced

## **33 Telecommunications, Audio and Video Engineering**

### **33.020 Telecommunications in general**

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**BOS 67: 2003** *ed. 1* *TC EED 3*

Administration standard for commercial telecommunications infrastructure

**BOS 70: 2004** *ed. 1* *TC EED 3*  
Telecommunications - Commercial grounding (earthing) and bonding - requirements.

**BOS ISO/IEC 11801: 2003 2<sup>nd</sup> ed.** *ed. 1* *TC EED 3*  
Information technology – Generic cabling for consumer premises

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### **33.040 Telecommunication systems**

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No current standards

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#### **33.040.20 Transmission systems**

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No current standards

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### **33.120 Components and accessories for telecommunications equipment**

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#### **33.12.20 Wires and symmetrical cables**

**BOS ISO/IEC 17020: 2012** *ed. 1* *TC GPD 1*  
Conformity assessment – Requirements for the operation of various types of bodies performing inspection

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## **35 Information Technology. Office Machines**

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### **35.040 Character sets and information coding**

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**BOS ISO/IEC 17799: 2005** *ed. 1* *TC EED 3*  
Information technology – Security techniques – Code of practice for information security management

#### **35.040.99 Equipment, Casino**

**BOS 202-1: 2006** *ed. 1* *TC GPD 3*  
Gaming equipment - Part 1: Casino equipment - Specification

**BOS 202-2: 2006** *ed. 1* *TC GPD 3*  
Gaming equipment - Part 2: Monitoring and control systems for gaming equipment

**BOS 202-3: 2006** *ed. 1* *TC GPD 3*  
Gaming equipment - Part 3: Wagering record keeping systems

**BOS 202-4: 2006** *ed. 1* *TC GPD 3*  
Gaming equipment - Part 4: Local area and wide area jackpot and progressive jackpot equipment

**BOS 202-5: 2006** *ed. 1* *TC GPD 3*  
Gaming equipment - Part 5: Tokens

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### **35.200 Interface and interconnection equipment**

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#### **35.240.99 IT Applications in other fields**

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No current standards

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## **43 Road Vehicle Engineering**

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### **43.020 Road vehicles in general**

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**BOS 57: 2009** *ed. 2* *TC MED 5*  
The testing of motor vehicles for roadworthiness – code of practice

**BOS 121: 2005** *ed. 1* *TC MED 5*

The measurement of noise emitted by road vehicles when stationary – Code of practice

**BOS 122: 2005** *ed. 1* *TC MED 5*  
Engine speed (S-values), reference sound levels and permissible sound levels of stationary road vehicles – Code of practice.

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### **43.040.10 Electrical and electronic equipment**

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### **43.040.20 Lighting, signalling and warning devices**

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**BOS 303-1: 2008** *ed. 1* *TC MED 5*  
Light for motor vehicles – Part 1: Incandescent lamps – Specification

**BOS 303-2: 2008** *ed. 1* *TC MED 5*  
Lights for motor vehicles - Part 2 - Headlights

**BOS 303-3: 2008** *ed. 1* *TC MED 5*  
Lights for motor vehicles - Part 3 - Secondary lights

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### **43.040.60 Bodies and body components**

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**BOS 187: 2006** *ed. 1* *TC MED 5*  
Motor vehicle safety – Rear under-run protection devices –Specification

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### **43.040.65 Glazing and wiper systems**

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**BOS 158: 2011 2<sup>nd</sup> ed.** *ed. 2* *TC MED 5*  
High penetration – resistant laminated safety glass for vehicles - Specification

**BOS 159: 2011 2<sup>nd</sup> ed.** *ed. 2* *TC MED 5*  
Laminated safety glass for vehicles – Specification

**BOS 160: 2011 2<sup>nd</sup> ed.** *ed. 2* *TC MED 5*  
Toughened safety glass for vehicles – Specification

**BOS 302: 2008** *ed. 1* *TC MED 5*  
Plastic safety glazing materials for motor vehicles – Specification

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### **43.080 Commercial Vehicles**

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**BOS 612:2014** *ed. 1* *TC MED5*  
Motor vehicles of categories M2 and M3 – Specification

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## **53 Materials Handling Equipment**

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### **53.040 Continuous handling equipment**

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#### **53.040.20 Components for conveyors**

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**BOS 613- 1: 2014** *ed. 1* *TC MED 8*  
Conveyor belt idlers – Part 1: Troughed belt conveyor idlers (metallic and non- metallic) for idler roller rotational speeds of up to 750 revolutions per minute- Specification

**BOS 613- 2: 2014** *ed. 1* *TC MED 8*  
Conveyor belt idlers - Part 2: Link suspended idlers and fixed- form suspended idlers (metallic and non-metallic) for idler roller rotational speeds of up to 750 revolutions per minute- Specification

**BOS 613-3:2014** *ed. 1*  
Conveyor belt idlers – Part 3: Performance specifications for troughed belt conveyer idlers (metallic and non-metallic) for idler roller rotational speeds of up to 750 revolutions per minute

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## **55.020 Packaging and distribution of goods in general**

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## 59 Textile and leather technology

### 59.020 Processes of the textile industry

**BOS ISO 4921:2000**

Knitting — Basic concepts — Vocabulary

### 59.060 Textile Fibres

**BOS ISO 22877:2004**

Castors and wheels – Vocabulary, symbols and multilingual terminology

**BOS ISO 22878:2004**

Castors and wheels – Test methods and apparatus

#### 59.060.10

**BOS ISO 6938:2012**

Textiles — Natural fibres — Generic names and definitions

## 59.080 Products of the textile industry

### 59.080.01 Textile in general

**BOS 40-1:2001**

Textiles – Inspection and acceptance criteria for used clothing

ed. 1

TC TCD 1

**BOS ISO 4915: 1991**

Textiles - Stitch types - Classification and terminology

BOS ISO 4916: 1991

Textiles - Seam types - Classification and terminology

### 59.080.20 Textile Fabrics

**BOS 209: 2006**

Sewing threads – Specification

ed. 1

TC TCD 1

### 59.080.30 Textile Yarns

**BOS 129: 2005**

The manufacture of sanitary towels

ed. 1

TC TCD 1

**BOS 131: 2005**

Elasticated, disposable diapers for adults

ed. 1

TC TCD1

**BOS 205: 2006**

Nurse's woven fabric – Polyester and cotton – Specification

ed. 1

TC TCD1

**BOS 206: 2006**

Polyester and wool uniform fabrics – Specification

ed. 1

TC TCD1

**BOS 235-1: 2007**

School wear fabrics – Part 1: Basic requirement - Specification

ed. 1

TC TCD1

**BOS 235-2: 2007**

School wear fabrics – Part 2: Blazer fabrics - Specification

ed. 1

TC TCD1

<b>BOS 235-3: 2007</b>	<i>ed. 1</i>	<i>TC TCD1</i>
School wear fabrics – Part 3: Polyester and wool fabrics - Specification		
<b>BOS 235-4: 2007</b>	<i>ed. 1</i>	<i>TC TCD1</i>
School wear fabrics – Part 4: Polyester and viscose fabrics - Specification		
<b>BOS 235-5: 2007</b>	<i>ed. 1</i>	<i>TC TCD1</i>
School wear fabrics – Part 5: Polyester and cotton fabrics - Specification		
<b>BOS 235-6: 2007</b>	<i>ed. 1</i>	<i>TC TCD1</i>
School wear fabrics – Part 6: Shirting and blouse fabrics - Specification		
<b>BOS 235-7: 2007</b>	<i>ed. 1</i>	<i>TC TCD1</i>
School wear fabrics – Part 7: Fabrics containing textured yarns - Specification		
<b>BOS 235-8: 2007</b>	<i>ed. 1</i>	<i>TC TCD1</i>
School wear fabrics – Part 8: Warp-knitted fabrics –Specification		
<b>BOS 288-1: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 1: Basic requirements for piece-goods and made-up articles – Specification		
<b>BOS 288-2: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 2: Winter sheeting, sheets and pillowcases – Specification		
<b>BOS 288-3: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 3: Cotton sheeting, sheets and pillowcases – Specification		
<b>BOS 288-4: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 4: Polyester-and-cotton sheeting, sheets and pillowcases – Specification		
<b>BOS 288-5: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 5: Terry towelling, towels, and other terry weave articles – Specification		
<b>BOS 288-6: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 6: Cotton curtain fabrics – Specification		
<b>BOS 288-7: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 7: Cotton curtain lining – Specification		
<b>BOS 288-8: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 8: Bedspread fabrics and bedspreads – Specification		
<b>BOS 288-9: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 9: Cotton flannelette duster fabric and dusters – Specification		
<b>BOS 288-10: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 10: Cotton ticking – Specification		
<b>BOS 288-11: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 11: Feather proof fabrics – Specification		
<b>BOS 288-12: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 12: Kitchen cloth fabric and kitchen cloths – Specification		
<b>BOS 288-13: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 13: Cotton huckaback towelling and towels – Specification		
<b>BOS 288-14: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 14: Cotton tablecloth fabric, tablecloths and table napkins – Specification		
<b>BOS 288-15: 2009</b>	<i>ed. 1</i>	<i>TC TCD1</i>
Woven household fabrics and articles Part 15: Cotton dishcloth fabrics and dishcloths – Specification		
<b>BOS ISO 2959:2011</b>		
Textiles — Woven fabric descriptions		
<b>BOS ISO 3572:1976</b>		

Textiles - Weaves - Definitions of general terms and basic Weaves

**BOS ISO 7211-2:1984**

Textiles - Woven fabrics - Construction - Methods of analysis - Part 2: Determination of number of threads per unit length

**BOS ISO 7211-3:1984**

Textiles - Woven fabrics - Construction - Methods of analysis - Part 3: Determination of crimp of yarn in fabric

**BOS ISO 7211-4:1984**

Textiles - Woven fabrics - Construction - Methods of analysis – Part 4: Determination of twist in yarn removed from fabric

**BOS ISO 8388:1998**

Knitted fabrics - Types – Vocabulary

**BOS ISO 8498:1990**

Woven Fabric – Description of defects – Vocabulary

**BOS ISO 8499:2003**

Knitted fabrics — Description of defects — Vocabulary

**BOS ISO 9354:1989**

Textiles - Weaves - Coding system and examples

**BOS ISO 13934-1:2013**

Textiles – Tensile properties of fabrics – Part 1: Determination of maximum force and elongation at maximum force using the strip method

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**59.080.99 Other products of the textile industry**

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**BOS 207:2015**

National Flag – Specification

*ed. 1*

*TC TCD1*

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**59.100.10 Textile glass materials**

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**No current standards**

**61 Clothing industry**

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**61.020 Clothes**

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**BOS 40-1:2001**

Textiles – Inspection and acceptance criteria for used clothing

*ed. 1*

*TC TCD 1*

**BOS 152: 2005**

Definitions and measurement procedure – Code of practice

*ed. 1*

*TC TCD 1*

**BOS 153: 2005**

Size designation of clothes – Men’s and boys’ wear garments – Specification

*ed. 1*

*TC TCD 1*

**BOS 154: 2005**

Size designation of women’s and girl’s wear – Specification

*ed. 1*

*TC TCD 1*

**BOS 208: 2006**

Care labelling of textiles and clothing – Specification

*ed. 1*

*TC TCD 1*

**BOS 211: 2006**

Printed labels for textiles – Specification

*ed. 1*

*TC TCD 1*

**BOS 233-1: 2007**

School clothing – Part 1: General requirements – Specification

*ed. 1*

*TC TCD 1*



<b>BOS 233-2: 2007</b> School clothing – Part 2: Blazers – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-3: 2007</b> School clothing – Part 3: Trousers and shorts – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-4: 2007</b> School clothing – Part 4: Shirts – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-5: 2007</b> School clothing – Part 5: Dresses, tunics and gym dresses – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-6: 2007</b> School clothing – Part 6: Girls' slacks and skirts – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-7: 2007</b> School clothing – Part 7: Jerseys and cardigans – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-8: 2007</b> School clothing – Part 8: Tracksuits – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-9: 2007</b> School clothing – Part 9: Athletic wear – Specification	<i>ed. 1</i>	<i>TC TCD 1</i>
<b>BOS 233-10: 2007</b> School clothing – Part 10: Knee-high stockings and socks - Specification	<i>ed. 1</i>	<i>TC TCD 1</i>

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## **61.040 Headgear, clothing accessories, fastening of clothing**

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<b>BOS 128: 2005</b> Men's and women's leather belts	<i>ed. 1</i>	<i>TC TCD 1</i>
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## **61.060 Footwear**

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<b>425: 2012</b> Industrial boots (including safety boots) with direct-vulcanized soles and heels – Specification	<i>ed. 1</i>	<i>TC TCD 2</i>
<b>BOS 426: 2012</b> Industrial boots (including safety boots) with stuck-on pre-moulded or direct-injection-moulded soles and heels – Specification	<i>ed. 1</i>	<i>TC TCD 2</i>
<b>BOS 618:2014</b> Ladies' shoes, flat lasted, with stuck-on outer soles — Specification	<i>ed. 1</i>	<i>TC CD 2</i>
<b>BOS 619:2014</b> Men's flat lasted shoes, with stuck-on outer sole — Specification	<i>ed. 1</i>	<i>TC CD 2</i>
<b>BOS ISO 9407:1991</b> Shoes sizes - Mondopoint System of sizing and marking		

**BOS ISO 19407:2015**  
Footwear — Sizing — Conversion of sizing systems

**BOS ISO 19408:2015**  
Footwear — Sizing — Vocabulary and terminology

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## **65 Agriculture**

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### **65.020 Farming and forestry**

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No current standards

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#### **65.020.20 Plant growing**

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No current standards

## **65.060.01 Agricultural machines and equipment in general**

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### **65.060.10 Agricultural tractors and trailed vehicles**

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**BOS ISO 11684: 1995** *ed. 1* *TC LPG*  
Tractors, machinery for agriculture and forestry, powered lawn and garden equipment -- Safety signs and hazard pictorials -- General principles

**BOS ISO 730-1: 1994** *ed. 3* *TC MED 7*  
Agricultural wheeled tractors -- Rear-mounted three-point linkage -- Part 1: Categories 1, 2, 3 and 4

**BOS ISO 730-2:1979** *ed. 1* *TC MED 7*  
Agricultural wheeled tractors -- Three-point linkage -- Part 2: Category 1 N (Narrow hitch)

**BOS ISO 789-1:1990** *ed. 2* *TC MED 7*  
Agricultural tractors -- Test procedures -- Part 1: Power tests for power take-off

**BOS ISO 789-2:1993** *ed. 3* *TC MED 7*  
Agricultural tractors -- Test procedures -- Part 2: Rear three-point linkage lifting capacity

**BOS ISO 789-6:1982** *ed. 2*  
Agricultural tractors -- Test procedures -- Part 6: Centre of gravity

### **65.060.35 Irrigation and drainage equipment**

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**BOS ISO 8026: 1995** *ed. 2* *TC MED 7*  
Agricultural irrigation equipment -- Sprayers -- General requirements and test methods

### **65.060.40 Plant care equipment**

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**BOS ISO 5681: 1992** *ed. 2* *TC MED 7*  
Equipment for crop protection – Vocabulary

**BOS ISO 5682-1: 1996** *ed. 2* *TC MED 7*  
Equipment for crop protection -- Spraying equipment -- Part 1: Test methods for sprayer nozzles

**BOS ISO 5682-2: 1997** *ed. 2* *TC MED 7*  
Equipment for crop protection -- Spraying equipment -- Part 2: Test methods for hydraulic sprayers

**BOS ISO 5682-3: 1996** *ed. 1* *TC MED 7*  
Equipment for crop protection -- Spraying equipment -- Part 3: Test method for volume/hectare adjustment systems of agricultural hydraulic pressure sprayers

## **65.100 Pesticides and other agrochemicals**

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### **65.100.10 Insecticides**

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**BOS 572:2014** *ed. 1* *TC CD 3*  
The application of soil insecticides for the protection of buildings  
– Code of practice.

### **65.120 Animal feeding stuffs**

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**BOS 8 – 1: 2008** *ed. 1* *TC AFD2*  
Poultry feeds – Part 1: Chicken feeds – Specification

**BOS 8 – 2: 2012 2<sup>nd</sup> ed.** *ed. 2* *TC AFD2*  
Poultry feeds – Part 2: Ostrich feeds – Specification

<b>BOS 25: 2008 2<sup>nd</sup> ed.</b> Animal feeding stuff – Cattle feeds – Specification	<i>ed. 1</i>	<i>TC AFD 2</i>
<b>BOS 190: 2006</b> Animal feeding stuffs- Pig feeds – Specification	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS 225: 2006</b> Poultry feeds – Broiler breeder feeds – Specification	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS 234: 2006</b> Animal feeding stuffs – Guinea fowl feeds – Specification	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS 246: 2007</b> Animal feeding stuffs – Rabbit feeds - Specification	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS 297: 2008</b> Animal feeding stuffs – Pet foods – Specification	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS ISO 6490-1: 1985</b> Animal feeding stuffs – Determination of calcium content – Part 1: Titrimetric method	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS ISO 6491: 1998</b> Animal feeding stuffs – Determination of phosphorus content – Spectrometric method	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS ISO 6496: 1999</b> Animal feeding stuffs – Determination of moisture and other volatile matter content	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS ISO 6498: 1999</b> Animal feeding stuffs – Preparation of test samples	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS ISO 6651: 2001</b> Animal feeding stuffs – Semi-quantitative determination of aflatoxin B <sub>1</sub> – Thin-layer chromatographic methods	<i>ed. 1</i>	<i>TC AFD2</i>
<b>BOS ISO 6866: 1985</b> Animal feeding stuffs – Determination of free and total gossypol	<i>ed. 1</i>	<i>TC AFD2</i>

## **67 Food Technology**

### **67.020 Processes in the food industry**

<b>BOS 686:2015</b> Requirements for a Hazard Analysis and Critical Control Point (HACCP) System	<i>ed. 1</i>	
<b>BOS 690: 2015</b> Food management System – Requirements for prerequisite programmes (PRPs)	<i>ed. 1</i> )	
<b>BOS CAC/RCP 1: 2003</b> Recommended International Code of Practice – General principles of food hygiene.	<i>ed. 1</i>	
<b>BOS ISO 15161:2001</b> Guidelines on the application of ISO 9001:2000 for the food and drink industry	<i>ed. 1</i>	
<b>BOS ISO 22000: 2005</b> Food safety management systems – Requirements for any organization in the food chain	<i>ed. 1</i>	

### **67.050 General methods of tests and analysis for food products**

No current standards

### **67.060 Cereals, pulses and derived products**

<b>BOS 26:2009 2<sup>nd</sup> ed.</b> Cereals – Sorghum grains for human consumption	<i>ed. 1</i>	<i>TC AFD3</i>
<b>BOS 63:2002</b>	<i>ed. 1</i>	<i>TC AFD3</i>

Cereals – Classification and grading of sorghum grains intended for human consumption

<b>BOS 114:2005</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Cereals – Maize grains for human consumption – Specification		
<b>BOS 115: 2015</b>	<i>ed. 2</i>	<i>TC AFD5</i>
Bakery products – Bread – Specification		
<b>BOS 155: 2005</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Cereals – Sorghum malt		
<b>BOS 156: 2005</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Cereals – Determination of the diastatic power of sorghum – Test method.		
<b>BOS 157: 2016</b>	<i>ed. 3</i>	<i>TC AFD3</i>
Cereal products - Sorghum meal and sorghum flour – Specification		
<b>BOS 201: 2006</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Cereals and pulses – Certain pulses – Specification		
<b>BOS 213: 2006</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Cereals – Milled maize products – Specification		
<b>BOS 298: 2008</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Cereals – Whole and dehulled pearl millet grains - Specification		
<b>BOS ISO 6644: 2002</b>	<i>ed. 1</i>	
Flowing cereals and milled cereal products – Automatic Sampling by mechanical means		
<b>BOS ISO 11050: 1993</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Wheat flour and durum wheat semolina -- Determination of impurities of animal origin		
<b>BOS ISO 11051: 1994</b>	<i>ed. 1</i>	<i>TC AFD3</i>
Durum wheat ( <i>Triticum durum</i> Desf.) – Specification		
<b>BOS ISO 13690: 1999</b>	<i>ed. 1</i>	
Cereals, pulses and milled products – Sampling of static batches		

## **67.080 Fruits. Vegetables**

<b>BOS 90: 2004</b>	<i>ed. 1</i>	<i>TC AFD 1</i>
Fruits and vegetables - Citrus fruit – Grading requirements		
<b>BOS ISO 874: 1980</b>	<i>ed. 1</i>	<i>TC AFD1</i>
Fruits and vegetables – Sampling		

### **67.080.10 Fruits and derived products**

No current standards

### **67.080.20 Vegetables and derived products**

<b>BOS 4: 2012 2<sup>nd</sup> ed.</b>	<i>ed. 2</i>	<i>TC AFD1</i>
Tomato – Grading requirements		
<b>BOS 43: 2011 2<sup>nd</sup> ed.</b>	<i>ed. 2</i>	<i>TC AFD1</i>
Onions – Grading requirements		
<b>BOS 58: 2011 2<sup>nd</sup> ed.</b>	<i>ed. 2</i>	<i>TC AFD1</i>
Headed cabbage – Grading requirements		
<b>BOS 59: 2011</b>	<i>ed. 2</i>	<i>TC AFD1</i>
Potatoes – Grading requirements		

<b>BOS 272: 2013</b> Sweet pepper- Specification	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 430: 2012</b> Carrot – Grading requirements	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 450: 2011</b> Peanut butter – Specification	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 471: 2012</b> Butternut – grading requirements	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 531: 2012</b> Beetroot – grading requirements	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 590: 2013</b> Head lettuce- Specification	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 622: 2014</b> Broccoli – Grading Requirements	<i>ed. 1</i>	<i>TC AFD 1</i>
<b>BOS 623: 2014</b> Cauliflower – Grading Requirements	<i>ed. 1</i>	<i>TC AFD 1</i>
<b>BOS 639: 2014</b> Leafy vegetables – Grading requirements	<i>ed. 1</i>	<i>TC AFD 1</i>
<b>BOS 640: 2014</b> Cucumber – Grading Requirements	<i>ed.1</i>	<i>TC AFD 1</i>
<b>BOS 642:2014</b> Watermelons – Grading requirements	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 660: 2014</b> Jam, Jellies and Marmalades – Specification	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 670:2015</b> Good agricultural practices for horticulture – Code of practice	<i>ed. 1</i>	<i>TC AFD1</i>
<b>BOS 672: 2015</b> Bottled tomato sauce – specification	<i>ed. 1</i>	

## **67.100. Milk and milk products**

### **67.100.01 Milk and milk products in general**

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<b>BOS ISO 707:1997</b> Milk and milk products – Guidance on sampling	<i>ed. 2</i>	
<b>BOS ISO 5541-1:1986</b> Milk and milk products – Enumeration of coliforms – Part 1: Colony count technique at 30°C.	<i>ed. 1</i>	
<b>BOS ISO 5541-2:1986</b> Milk and milk products – Enumeration of coliforms – Part 2: Most probable number technique at 30°C	<i>ed. 1</i>	

### **67.100.10 Milk and processed milk products**

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<b>BOS 64: 2013 2<sup>nd</sup> ed.</b> Raw cow milk – Specification	<i>ed. 1</i>	<i>TC AFD 4</i>
<b>BOS 72: 2003</b> Pasteurized cow's milk	<i>ed. 1</i>	<i>TC AFD 4</i>
<b>BOS 92:2004</b>	<i>ed. 1</i>	<i>TC AFD 4</i>

Fermented cow's milk products – Yoghurt, sour milk (madila) and buttermilk

**BOS ISO 1211:1999** *ed. 2*  
Milk – Determination of fat content – Gravimetric method (Reference method)

**BOS 126: 2013** *ed.2* *TC AFD 4*  
Milk and milk products – Ultra high temperature treated cow's milk - Specification

**BOS ISO 6731: 1989** *ed. 1*  
Milk, cream and evaporated milk – Determination of total solids content (Reference method).

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### **67.100.30 Cheese**

**BOS 198: 2008** *ed. 1* *TC AFD*  
Cheese – General specification

**BOS ISO 1735:2004** *ed. 3* *TC AFD4*  
Cheese and processed cheese products -- Determination of fat content -- Gravimetric method (Reference method)

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### **67.120.10 Meat and meat products**

**BOS 656:2015** *ed. 1* *TC AFD7*  
Chicken meat – Specification

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### **67.120.20 Poultry and Eggs**

**BOS 200:2016** *ed. 1* *TC AFD7*  
Fresh chicken table eggs (unfertilized) – Specification

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### **67.120.30 Fish and fishery products**

**BOS 449: 2011** *ed. 1* *TC AFD7*  
Canned fish, canned marine molluscs, canned crustaceans and other derived products – Specification

**BOS 385: 2012** *ed. 1* *TC AFD7*  
The manufacture, production, processing and treatment of canned meat products – Specification

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### **67.160 Beverages**

**BOS 680: 2015** **Cereal products — Mageu — Specification**

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### **67.160.10 Alcoholic beverages**

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No current standards

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### **67.160.20 Non-alcoholic beverages**

**BOS 106: 2004** *ed. 1* *TC AFD 6*  
Fruit juices and fruit drinks

**BOS 473: 2011** *ed. 1* *TC AFD 6*  
Additives in fruit and vegetable drinks and non-alcoholic drinks – Specification

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### **67.180 Sugar. Sugar products. Starch**

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### **67.180.10 Honey**

**BOS 199: 2006** *ed. 1*

Honey – Specification

**BOS 472: 2012** *ed. 1* *TC AFD 8*  
Beekeeping and bee products – Code of practice

**BOS 671:2014** *ed. 1* *TC AFD 8*  
Beeswax – Specification

### **67.180.20 Starch and derived products**

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**BOS ISO 11212 – 2: 1997** *ed. 1* *TCAFD1* Starch and  
derived products – Heavy metals content – Part 2: Determination of mercury content by atomic absorption  
spectrometry

### **67.200 Edible oils and fats. Oilseeds**

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No current standards

#### **67.200.10 Animal and vegetable fats and oils**

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**BOS 544: 2013** *ed. 1* *TC AFD 5*  
Edible oils – Specification

**BOS ISO 8294: 1994** *ed. 1* *TC AFD 2*  
Animal and vegetable fats and oils – Determination of copper, iron and nickel content – Graphite furnace atomic  
absorption method.

#### **67.250 Materials and articles in contact with foodstuffs**

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**BOS 337: 2012** *ed. 1* *TC CD 6*  
Plastics material for food contact use – Specification

### **71 Chemical Technology**

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#### **71.060.50 Salts**

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**BOS 681: 2015** *ed. 1* *TC AFD7*  
Food grade salt – Specification

#### **71.100.01 Products of the chemical industry in general**

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**BOS 66: 2003** *ed. 1* *TC CD 3*  
Classification, labelling and packaging of chemicals – Part 1: General requirements

**BOS ISO 11014-1:1994** *ed. 1*  
Safety data sheet for chemical products -- Part 1: Content and order of sections.

#### **71.100.35 Chemicals for industrial and domestic disinfection purposes**

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#### **71.100.40 Surface active agents**

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**BOS 147: 2009** *ed. 1* *TC CD 5*  
Scouring powder: Synthetic detergent base - Specification

**BOS 227: 2006** *ed. 1* *TC CD 5*  
Gel detergent cleaner (non-abrasive) – Specification

**BOS 228: 2006** *ed. 1* *TC CD 5*  
Liquid furniture polish (non-wax emulsion type) –Specification

**BOS 229: 2006** *ed. 1* *TC CD 5*

Polish stripper – Specification

**BOS 318: 2009** *ed. 1* *TC CD 5*  
High foam laundry detergent – Specification

**BOS 358:2009** *ed.1* *TC CD 5*  
Low foam laundry detergent — Specification

**BOS 374: 2010** *ed. 1* *TC CD 5*  
Ammoniated liquid detergent cleaner – Specification

**BOS 370: 2010** *ed. 1* *TC CD 5*  
Detergent skin cleansers – Specification

### **71.100.50 Wood-protecting chemicals**

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**BOS 173: 2006** *ed. 1* *TC CD 7*  
Preservative treated timber – Specification

### **71.100.70 Cosmetics, Toiletries**

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**BOS 370: 2010** *ed. 1* *TC CD 5*  
Detergent skin cleansers – Specification

**BOS ISO 22715:2009**  
Cosmetics — Packaging and labelling

## **75 Petroleum and related technologies**

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### **75.100 Lubricants, industrial oils and related products**

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**BOS 628: 2015** *ed. 1* *TC MED 10*  
High performance engine oil for petrol engines (for API service category SJ).

**BOS 629: 2015** *ed. 1* *TC MED 10*  
High performance engine oil for petrol engines (for API service category SL).

### **75.140 Waxes, bituminous materials and other petroleum products**

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**BOS 14: 2000** *ed. 1* *TC BCD 3*  
Penetration grade bitumen

**BOS 15:2000** *ed. 1* *TC BCD 2*  
Semi-flexible vinyl tiles

**BOS 17:2000** *ed. 1* *TC BCD 3*  
Cutback bitumen

**BOS 18: 2000** *ed. 1* *TC BCD 3*  
Cationic bitumen road emulsions

**BOS 33:2000** *ed. 1* *TC BCD 3*  
Anionic bitumen road emulsions

**BOS 34: 2009** *ed. 1* *TC BCD 2*  
Flexible vinyl flooring – Specification

**BOS 144: 2011** *ed.2* *TC CD 5*  
Wax emulsion polish for floors and furniture – Specification

**BOS 145: 2005** *ed. 1* *TC*



Wax polish solvent-based for floors and furniture-Specification

**BOS 146: 2005** *ed. 1* *TC*  
Scouring compounds – Soap base (metric units) – Specification

**BOS 671:2014** *ed. 1* *TC AFD 8*  
Beeswax – Specification

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## **75.160 Fuels**

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### **75.160.20 Liquid Fuels**

**BOS 576:2014** *ed. 1* *TC MED 10*  
Automotive diesel fuel – Specification

**BOS 577:2014** *ed. 1* *TC MED 10*  
Unleaded petrol – Specification

**BOS 578:2014** *ed. 1* *TC MED 10*  
Kerosene for domestic heating and illuminating – Specification

**BOS 626: 2016** *ed. 1* *TC MED 10*  
Automotive biodiesel – Fatty Acid Methyl Esters (FAME) for diesel engines – Requirements and test methods

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### **75.160.30 Liquid Fuels**

**BOS 256:2007** *ed.1* *TC MED 2*  
Appliances operating on liquefied petroleum gas — Safety aspects

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## **75.180 Equipment for petroleum & natural gas industries**

No current standards

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### **75.180.99 Other equipment for petroleum and natural gas industries**

No current standards

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## **75.200 Petroleum products & natural gas handling equipment**

**BOS 3-2:2017** *ed. 2* *MED 2*  
The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations. Part 2: Installation of LPG systems in mobile units, including but not limited to caravans, motor homes , park homes and mobile kitchens

**BOS 255:2007** *ed. 1* *MED 2*  
Metallic hose assemblies for liquid petroleum gases and liquefied natural gases — Specification

**BOS 580-1:2015** *ed.1* *MED 10*  
The petroleum industry — Part 1: Storage and distribution of petroleum products in above-ground bulk installations – Code of practice

**BOS 580-2:2015** *ed. 1* *MED 10*  
The petroleum industry — Part 2: Electrical and other installations in the distribution and marketing sector – Code of practice

**BOS 580-3:2015** *ed.1* *MED 10*  
The petroleum industry — Part 3: The installation, modification, and decommissioning of underground storage tanks, pumps/dispensers and pipework at service stations and consumer installations – Code of practice

**BOS 577:2014** *ed.1* *TC MED 10*

Unleaded petrol – Specification

**BOS 705: 2016** *ed. 1* *TC MED 10*  
Steel tanks for flammable and combustible liquids – Specification

**BOS ISO 2928:2003** *ed. 1* *MED 2*  
Rubber hoses and hose assemblies for liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas up to 25 bar (2,5 MPa) -- Specification

## **77.040 Testing of metals**

### **77.040.10 Mechanical testing of metals**

**BOS ISO 6506-1:2002** *ed. 1* *TC MED 5*  
Metallic materials – Brinell hardness test – Part 1: Test method.

**BOS ISO 6506-2:2002** *ed. 2* *TC MED 5*  
Metallic materials – Brinell hardness test – Part 2: Verification and calibration of testing machines.

**BOS ISO 6892: 1998** *ed. 2*  
Metallic materials – Tensile testing at ambient temperature.

### **77.080.10 Irons**

**BOS 265: 2007** *ed. 1* *TC MED 1*  
Cast iron surface boxes and manhole and inspection covers and frames – Specification

**IEC 60335-1: 2004** *ed. 4*  
Household and similar electrical appliances – Safety – Part 1: General requirements

**IEC 60335-2-3: 2002** *ed. 5*  
Household and similar electrical appliances – Safety – Part 2-3: Particulars requirements for electric irons.

**IEC 60335-2-6: 2002** *ed. 5*  
Household and similar electrical appliances – Safety – Part 2-6: Particulars requirements for stationary cooking ranges, hobs, ovens and similar appliances.

**IEC 60335-2-7: 2002** *ed. 6* *24p.* *(12)*  
Household and similar electrical appliances – Safety – Part 2-7: Particulars requirements for washing machines.

**IEC 60335-2-10: 2008** *ed. 1* *TC EED 5*  
Household and similar electrical appliances – Safety – Part 2-10: Particular requirement for floor treatment machines and wet scrubbing machines.

**IEC 60335-2-43: 2008** *ed. 1* *TC EED 5*  
Household and similar electrical appliances – Safety – Part 2-43: Particular requirement for clothes dryers and towel rails

**IEC 60335-2-52: 2008** *ed. 1* *TC EED 5*  
Household and similar electrical appliances – Safety – Part 2-52: Particular requirement for oral hygiene appliances

**IEC 60335-2-55: 2008** *ed. 1* *TC EED 5*  
Household and similar electrical appliances – Safety – Part 2-55: Particular requirement for surface cleaning appliances for electrical appliances for use with aquariums and garden ponds

**IEC 60335-2-65: 2008** *ed. 1* *TC EED 5*  
Household and similar electrical appliances – Safety – Part 2-65: Particular requirement for air cleaning appliances

## **77.120 Non-ferrous metals**

## 77.120.60 Lead, zinc, tin and their alloys

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### No current standards

## 77.140 Iron and steel products

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### 77.140.15 Steels for reinforcement of concrete

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<b>BOS 148: 2005</b> Steel bars for concrete reinforcement – Specification	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 149: 2005</b> Welded steel fabric for reinforcement of concrete	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 150: 2005</b> Bending dimensions and scheduling of steel reinforcement for concrete.	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 248: 2007</b> The use of reinforcement cover devices for reinforced concrete - Code of practice	<i>ed. 1</i>	<i>TC BCD 6</i>

### 77.140.25 Spring steels

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<b>BOS 60: 2009 2<sup>nd</sup> ed</b> Road vehicles – Leaf spring – Specification	<i>ed. 2</i>	<i>TC MED 5</i>
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### 77.140.50 Flat steel products and semi-products

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<b>BOS 16: 2010 2<sup>nd</sup> ed.</b> Metal roofing tiles - Specification	<i>ed. 2</i>	<i>TC BCD 2</i>
<b>BOS 149: 2005</b> Welded steel fabric for reinforcement of concrete	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 726:2017</b> Galvanized steel sheets (plain and corrugated) – Specification	<i>ed. 1</i>	<i>TC BDC 2</i>

### 77.140.60 Steel bars and rods

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<b>BOS 148: 2005</b> Steel bars for concrete reinforcement – Specification	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 150: 2005</b> Bending dimensions and scheduling of steel reinforcement for concrete	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 248: 2007</b> The use of reinforcement cover devices for reinforced concrete - Code of practice	<i>ed. 1</i>	<i>TC BCD 6</i>

### 77.140.65 Steel wire, wire robes and link chains

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<b>BOS 264: 2007</b> Hexagonal steel wire mesh gabions and revet mattresses – Specification	<i>ed. 1</i>	<i>TC BCD 3</i>
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### 77.140.75 Steel pipes and tubes for specific use

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<b>BOS 329-1: 2010</b> Steel tubes for non-pressure purposes Part 1: Sections for scaffolding, general engineering and structural applications	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 582: 2013</b> Electric welded low carbon steel pipes for aqueous fluids (large bore) - Specification	<i>ed. 1</i>	<i>TC BCD 8</i>

## **77.140.80 Iron and Steel Castings**

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No current standards

## **77.140.99 Other iron and steel products**

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**BOS 316: 2009** *ed. 1* *TC MED 4*  
Mild steel nails - Specification

## **77.150 Products of non-ferrous metals**

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### **77.150.10 Aluminium products**

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**BOS 16: 2010 2<sup>nd</sup> ed.**  
Metal roofing tiles - Specification *ed. 2* *TC BCD 2*

## **79.020 Wood technology processes**

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**BOS 231: 2006** *ed. 1* *TC BCD 7*  
Health, safety and environmental guidelines for the construction and operation of timber treatment plants – Code of practice

**BOS 271: 2007** *ed. 1* *TC BCD 7*  
The mechanical stress grading of softwood timber (flexural method) – Method of test – Code of practice

**BOS 380: 2011** *ed. 1* *TC BCD 5*  
The construction of installation of vacuum sewerage system

## **79.040 Wood, sawlogs and sawn timber**

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**BOS 174: 2006** *ed. 1* *TC BCD 7*  
The preservative treatment of timber – Specification

**BOS 176: 2006** *ed. 1* *TC BCD 7*  
Eucalyptus poles, cross-arms and spacers for power distribution and telephone systems -Specification

**BOS 258: 2007** *ed. 1* *TC BCD 7*  
Wooden scaffold board - Specification

**BOS 269: 2008** *ed. 1* *TC BCD 2*  
The installation of wood and laminate flooring – Code of practice

**BOS 270:2007** *ed. 1* *TC BCD 7*  
Monoplanar prefabricated timber roof trusses (nail-plated) – Specification

**BOS 278: 2008** *ed. 1* *TC BCD 7*  
Thatched roof construction - Code of Practice

## **79.060 Wood-based panels**

## **79.080 Semi-manufacture of timber**

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**BOS ISO 1072:1975**  
Solid wood parquet - General characteristics

**BOS ISO 1324:1985**  
Solid wood parquet - Classification of oak Strips

**BOS ISO 2457:1976**  
Solid wood parquet - Classification of beech Strips

## 81.040 Glass

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### 81.040.01 Glass

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#### BOS ISO 3585:1998

Borosilicate glass 3.3 — Properties

### 81.040.20 Glass in building

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#### BOS 161-1: 2005

*ed. 1*

*TC MED 4*

Safety and glazing materials for buildings - Part 1: Safety performance of glazing materials under human impact – Specification

#### BOS 161-3: 2005

*ed. 1*

*TC MED 4*

Safety and security glazing materials for buildings – Part 3: Bullet-resistant glazing materials – Specification

### 81.040.30 Glass products

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#### BOS 158: 2011 2<sup>nd</sup> ed.

*ed. 2*

*TC MED 5*

High penetration – resistant laminated safety glass for vehicles - Specification

#### BOS 159: 2011 2<sup>nd</sup> ed.

*ed. 2*

*TC MED 5*

Laminated safety glass for vehicles – Specification

#### BOS 160: 2011 2<sup>nd</sup> ed.

*ed. 2*

*TC MED 5*

Toughened safety glass for vehicles – Specification

## 83.080 Plastics

### 83.140 Rubber and plastics products

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#### 83.140.10 Films and sheets

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##### BOS ISO 4591: 1992

*ed. 2*

Plastics -- Film and sheeting -- Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)

#### 83.140.20 Laminated sheets

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##### BOS 302: 2008

*ed. 1*

*TC MED 5*

Plastic safety glazing materials for motor vehicles – Specification

#### 83.140.30 Plastics pipes and fittings for non fluid use

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No current standards

#### 83.140.50 Seals

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##### BOS ISO 4633: 2002

Rubber seals – Joint rings for water supply, drainage and sewage pipelines – Specification for materials

*ed. 1*

*TC MED 5*

#### 83.140.99 Other rubber & plastics products

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##### BOS 186: 2006

*ed. 1*

*TC CD6*

Plastic carrier bags and flat bags – Specification

##### BOS ISO 4591:1992

*ed. 1*

Plastics -- Film and sheeting -- Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)

**BOS ISO 6446:1994** *ed. 1* *TC BCD3*  
Rubber products -- Bridge bearings -- Specification for rubber materials

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## **83.160 Tyres**

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### **83.160.10 Road Vehicle Tyres**

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**BOS 116: 2011 2<sup>nd</sup> ed.** *ed. 2* *TC MED 5*  
Pneumatic tyres for passenger cars and their trailers – Specification

**BOS 117: 2011 2<sup>nd</sup> ed.** *ed. 2* *TC MED 5*  
Pneumatic tyres for commercial vehicles and their trailers – Specification

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## **83.180 Adhesives**

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**BOS 171: 2006** *ed. 1* *TC BCD 2*  
Adhesives for tiles – Specification

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## **85.060 Paper and board**

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**BOS ISO 2758: 2001** *ed. 1* *TC CD 2*  
Paper – Determination of bursting strength

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## **85.080 Paper products**

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**BOS 191: 2006** *ed. 1* *TC CD 2*  
Scholastic stationery – Specification

**BOS 192: 2006** *ed. 1* *TC BCD 2*  
Chalk writing boards for schools – Specification

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### **85.080.20 Tissue paper**

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**BOS 243: 2007** *ed. 1* *TC CD 2*  
Toilet paper- Specification

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## **87.040 Paints and varnishes**

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**BOS 11: 2000** *ed. 1* *TC CD 1*  
Paints and varnishes – Undercoats for paints

**BOS 12-1: 2000** *ed. 1* *TC CD 1*  
Paints and varnishes – Road and runway markings – Specification Part 1: Single-pack solvent and water borne paints

**BOS 20: 2002** *ed. 1* *TC CD 1*  
Paints and varnishes – Primers for wood for interior and exterior use

**BOS 21: 2000** *ed. 1* *TC CD 1*  
Paints and varnishes – Decorative high gloss enamel paint for interior and exterior use

**BOS 22: 2002** *ed. 1* *TC CD 1*  
Paints and varnishes – Bituminous aluminium paint

**BOS 23: 2002** *ed. 1* *TC CD 1*  
Paints and varnishes – Finishing paint aluminium type

**BOS 45: 2001** *ed. 1* *TC CD 1*  
Paints and varnishes

<b>BOS 47: 2001</b>	<i>ed. 1</i>	<i>TC CD 1</i>
Paint and vanishes – Roof paints		
<b>BOS 489: 2011</b>	<i>ed. 1</i>	<i>TC CD4</i>
Textured wall coatings, emulsion based, for interior and exterior use – Specifications		
<b>BOS ISO 2813:2014</b>		
Paints and Varnishes – Determination of gloss value at 20, 60 and 85		
<b>BOS ISO 3270:1984</b>		
Paints and Varnishes and their raw materials – Temperature and Humidity for conditioning and testing		
<b>BOS ISO 9117-1:2009</b>		
<b>Paints and varnishes — Drying tests — Part 1: Determination of through-dry state and through-dry time</b>		

## **87.060      Paint Ingredients**

### **87.060.01      Paint Ingredients**

<b>BOS ISO 3270:1984</b>		
Paints and Varnishes and their raw materials – Temperature and Humidity for conditioning and testing		

## **91.010      Construction industry**

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### **91.010.30      Technical aspects**

<b>BOS 536-1:2014</b>	<i>ed. 1</i>	<i>TCBCD6</i>
Basics of structural design and actions for buildings and Industrial structures – Part 1: Basis of structural design		

<b>BOS 536-2:2014</b>	<i>ed. 1</i>	<i>TC BCD 6</i>
Basics of structural design and actions for buildings and Industrial structures – Part 2: Self weight and imposed loads		

<b>BOS 536-3:2014</b>	<i>ed. 1</i>	<i>TC BCD 6</i>
Basics of structural design and actions for buildings and Industrial structures – Part 3: Wind actions		

<b>BOS 536-5:2014</b>	<i>ed. 1</i>	<i>TC BCD 6</i>
Basics of structural design and actions for buildings and Industrial structures – Part 5: Basis for geotechnical design and actions		

<b>BOS 536-6:2014</b>	<i>ed. 1</i>	<i>TC BCD 6</i>
Basics of structural design and actions for buildings and Industrial structures – Part 6: Actions induced by cranes and machinery		

### **91.040      Buildings in general**

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No current standards

## **91.060      Elements of buildings**

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### **91.060.10      Walls, partitions**

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<b>BOS 42: 2001</b>	<i>ed. 1</i>	<i>TC BCD 1</i>
Masonry walling – Code of practice		

### **91.060.20      Roofs**

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<b>BOS 16: 2010 2<sup>nd</sup> ed.</b> Metal roofing tiles - Specification	ed. 2	TC BCD 2
<b>BOS 270:2007</b> Monoplanar prefabricated timber roof trusses (nail-plated) – Specification	ed. 1	TC BCD 7
<b>BOS 276: 2008</b> High temperature wood preserving creosote- Specification	ed. 1	TC BCD 7
<b>BOS 278: 2008</b> Thatched roof construction - Code of Practice	ed. 1	TC BCD 7
<b>BOS 311: 2009</b> The manufacture and erection of lightweight metal trusses - Code of Practice	ed. 1 33p (15)	TC BCD 7

### **91.060.30 Ceilings. Floors. Stairs**

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<b>BOS 96: 2005</b> Wood mosaic flooring – Specification	ed. 1	TC BCD2
<b>BOS 97: 2004</b> Softwood flooring boards – Specification	ed. 1	TC BCD2
<b>BOS 170-1: 2006</b> Suspended ceilings – Part 1: Code of practice for design	ed. 1	TC BCD 2
<b>BOS 170-2: 2006</b> Suspended ceilings – Part 2: Performance of components and assemblies	ed. 1	TC BCD 2
<b>BOS 170-3: 2006</b> Suspended ceilings – Part 3: Installation and maintenance – Code of Practice	ed. 1	TC BCD 2
<b>BOS 259: 2007</b> Wooden ceiling and panelling boards – Specification	ed. 1	TC BCD 7
<b>BOS 269: 2008</b> The installation of wood and laminate flooring – Code of practice	ed. 1	TC BCD 2

### **91.060.50 Doors and windows**

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<b>BOS 36: 2009 2<sup>nd</sup> ed.</b> Windows, casement doors and sidelights steel frames – Specification	ed 1	TC BCD 1
<b>BOS 42: 2001</b> Masonry walling	ed 1	TC BCD 1
<b>BOS 127: 2005</b> PVC- U Window and door frames for external use – PVC – U profiles for window and door frames – Specification	ed. 1	TC MED 4
<b>BOS 138: 2011</b> Wooden doors – Specification	ed. 2	TC BCD7
<b>BOS 162: 2005</b> PVC-U window and door frames for external use - Windows with frames made from PVC-U profiles – Specification	ed. 1	TC MED 4
<b>BOS 294: 2008</b> Indoor Venetian blinds – Specification	ed. 3	TC BCD 2
<b>BOS 393: 2010</b> Strongroom and vault doors- Specification	ed. 1	TC MED 4
<b>BOS 396: 2010</b> Fire resisting door units for record rooms – Specification	ed. 1	TC MED 4



<b>BOS 397: 2010</b> Fire doors and fire shutters – Specification	<i>ed. 1</i>	<i>TC MED 4</i>
<b>91.080.10 Metal structures</b>		
<b>BOS 329-1: 2010</b> Steel tubes for non-pressure purposes Part 1: Sections for scaffolding, general engineering and structural applications	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>91.080.20 Timber structures</b>		
<b>BOS 95-1: 2005</b> Sawn softwood timber Part 1: General requirements	<i>ed. 1</i>	<i>BCD 2</i>
<b>BOS 95-2:2005</b> Sawn softwood timber – Part 2: Stress-graded structural timber and timber for frame wall construction	<i>ed. 1</i>	<i>BCD 7</i>
<b>BOS 95-3:2005</b> Sawn softwood timber – Part 3: Industrial timber – Specification	<i>ed. 1</i>	<i>BCD 7</i>
<b>BOS 204-2: 2006</b> Wooden poles, droppers, guard rails posts and spacer blocks Part 2: Specification	<i>ed. 1</i>	<i>BCD 7</i>
<b>91.080.30 Masonry</b>		
No current standards		
<b>91.080.40 Concrete structures</b>		
<b>BOS 148: 2005</b> Steel bars for concrete reinforcement – Specification	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>BOS 149: 2005</b> Welded steel fabric for reinforcement of concrete	<i>ed. 1</i>	<i>TC BCD 6</i>
<b>91.090 External structures (including fences, gates, arches, sheds, garages.</b>		
<b>BOS 104: 2012 2<sup>nd</sup> ed.</b> Prefabricated concrete components for fences - Specification	<i>ed.2</i>	<i>BCD 4</i>
<b>BOS 105:2004</b> Concrete flooring tiles – Specification	<i>ed. 1</i>	<i>BCD 4</i>
<b>91.100 Construction materials</b>		
<b>91.100.10 Cement. Gypsum. Lime. Mortar</b>		
<b>BOS 164:2006</b> Lime for soil stabilization	<i>ed. 1</i>	<i>TC BCD 3</i>
<b>BOS 171: 2006</b> Adhesives for tiles – Specification	<i>ed. 1</i>	<i>TC BCD 2</i>
<b>BOS 172: 2006</b> Gypsum plasterboard - Specification	<i>ed. 1</i>	<i>TC BCD 2</i>
<b>BOS 301: 2008</b> Dry pre-mix for mortar – Specification	<i>ed. 1</i>	<i>TC BCD 4</i>
<b>BOS EN 197-1: 2000</b> Cement Part 1 Composition, specification and conformity criteria for common cement	<i>ed. 2</i>	<i>TC BCD 1</i>

## **91.100.15 Mineral materials and products**

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<b>BOS 28: 2016</b> Burnt clay masonry units	<i>ed. 2</i>	<i>TCBCD 1</i>
<b>BOS 30:2000</b> Burnt clay paving units	<i>ed. 1</i>	<i>TC BCD 1</i>
<b>BOS 84: 2003</b> Aggregates from natural sources – Fine aggregates for plaster and mortar – Specification	<i>ed. 1</i>	<i>TC BCD 1</i>
<b>BOS 281: 2008</b> Natural stone – Sandstone building blocks – Specification	<i>ed. 1</i>	<i>TC BCD 2</i>

## **91.100.25 Ceramic and terracotta building products**

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<b>BOS 110:2005</b> The design and installation of ceramic tiling – Code of practice	<i>ed. 1</i>	<i>TC BCD 2</i>
<b>BOS ISO 13006:1998</b> Ceramic tiles – Definitions, classification, characteristics and marking	<i>ed. 1</i>	<i>TC BCD 2</i>

## **91.100.30 Concrete and concrete products**

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<b>BOS 24: 2009</b> Concrete roofing tiles - Specification	<i>ed. 2</i>	<i>TC BDC 2</i>
<b>BOS 27:2000</b> Concrete masonry units	<i>ed. 1</i>	<i>TC BCD 1</i>
<b>BOS 29: 2016</b> Concrete paving blocks	<i>ed. 2</i>	<i>TCBCD2</i>
<b>BOS 35:2000</b> Fibre concrete roofing tiles	<i>ed. 1</i>	<i>TC BDC 2</i>
<b>BOS 74: 2011</b> Precast reinforced concrete culverts – Specification	<i>ed. 2</i>	<i>TC BCD 4</i>
<b>BOS 76: 2007 2<sup>nd</sup> ed.</b> Precast concrete manhole sections and components – Specification	<i>ed. 2</i>	<i>TC BCD 4</i>
<b>BOS 98: 2004</b> Wood-wool panels (cement-bonded) – Specification	<i>ed. 1</i>	<i>TC BCD 4</i>
<b>BOS 100: 2004</b> The installation of resilient thermoplastic and similar flexible floor covering materials – Code of practice	<i>ed. 1</i>	<i>TCBCD 4</i>
<b>BOS 101: 2011 2<sup>nd</sup> ed.</b> Precast concrete suspended slabs – Specification	<i>ed. 2</i>	<i>TCBCD 4</i>
<b>BOS 102: 2005</b> Installation of concrete paving blocks – Code of practice	<i>ed. 1</i>	<i>TC BCD 4</i>
<b>BOS 103: 2011 2<sup>nd</sup> ed.</b> Precast concrete kerbs, edgings and channels - Specification	<i>ed. 2</i>	<i>TC BCD 4</i>
<b>BOS 104: 2012 2<sup>nd</sup> ed.</b> Prefabricated concrete components for fences - Specification	<i>ed. 2</i>	<i>BCD 4</i>
<b>BOS 105: 2004</b> Concrete flooring tiles – Specification	<i>ed. 1</i>	<i>TC BCD 4</i>
<b>BOS 135: 2005</b>	<i>ed. 1</i>	<i>TC BCD 4</i>

Ready-mixed concrete

<b>BOS 150: 2005</b>	<i>ed. 1</i>	<i>TC BCD 6</i>
Bending dimensions and scheduling of steel reinforcement for concrete		
<b>BOS 165: 2006</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Aggregates from natural resources – Aggregates for concrete		
<b>BOS 166: 2006</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Precast concrete paving slabs – Specification		
<b>BOS 214-1: 2006</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
The structural use of concrete – Part 1: Design – Code of practice		
<b>BOS 214-2: 2006</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
The structural use of concrete Part 2: Materials and execution of work- Code of practice		
<b>BOS 248: 2007</b>	<i>ed. 1</i>	<i>TC BCD 6</i>
The use of reinforcement cover devices for reinforced concrete - Code of practice		
<b>BOS 263: 2007</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Precast concrete products- Street and garden furniture – Specification		
<b>BOS ISO 1920-1: 2004</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Testing of concrete - Part 1: Sampling of fresh concrete		
<b>BOS ISO 1920-2: 2005</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Testing of concrete – Part 2 Properties of fresh concrete		
<b>BOS ISO 1920-3: 2004</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Testing of concrete - Part 3: Making and curing test specimens		
<b>BOS ISO 1920-4: 2005</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Testing of concrete - Part 4: Strength of hardened concrete		
<b>BOS ISO 1920-5: 2004</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Testing of concrete - Part 5: Properties of hardened concrete other than strength		
<b>BOS ISO 1920-6: 2004</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Testing of concrete - Part 6: Sampling, preparation and testing of concrete cores		
<b>BOS ISO 1920-7: 2004</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Testing of concrete Part 7: Non-destructive tests on hardened concrete		
<b>BOS ISO 12439: 2010</b>	<i>ed. 1</i>	<i>TC BCD 4</i>
Mixing water for concrete		

#### **91.100.40 Products in fibre-reinforced cement**

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<b>BOS 69: 2003</b>	<i>ed. 1</i>	<i>TC BCD 1</i>
Pre-stressed concrete lintels – specification.		
<b>BOS 268: 2007</b>	<i>ed. 1</i>	<i>TC BCD 2</i>
Fibre cement sheets (flat and profiled) – Specification		

#### **91.100.50 Binders, Sealing materials**

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<b>BOS 529-1: 2013</b>	<i>ed. 1</i>	<i>TC BCD 1</i>
Compressed earth building units Part 1: Kgalagadi sands building units – Specification		
<b>BOS 529-2: 2013</b>	<i>ed. 1</i>	<i>TC BCD 1</i>
Compressed earth building units Part 2: Kgalagadi sand building units – Code of manufacturer		
<b>BOS ISO 6927: 1981</b>	<i>ed. 1</i>	<i>TC BCD 2</i>
Building construction -- Jointing products -- Sealants – Vocabulary		

**BOS ISO 11600: 2002** *ed. 2* *TC BCD 2*  
Building construction -- Jointing products -- Classification and requirements for sealants.

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**91.120.40 Lightning protection**

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No current standards

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**91.140.10 Central heating systems**

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No current standards

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**91.140.30 Ventilation and air-conditioning**

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No current standards

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**91.140.40 Gas supply systems**

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No current standards

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**91.140.50 Electricity Supply Systems**

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**BOS 51:2003** *ed. 1* *TC EED2*  
Electrical installations in buildings – Code of practice

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**91.140.60 Water supply systems**

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**BOS ISO 4064-1: 2005** *ed. 1* *TC BCD5*  
Measurement of water flow in fully charged closed circuits – Meters for cold potable water and hot water – Part 1: Specifications

**BOS ISO 4427-1: 2007** *ed. 1* *TC BCD 5*  
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 1: General

**BOS ISO 4427-2: 2007** *ed. 1* *TC BCD 5*  
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 2: Pipes – Specification

**BOS ISO 4427-3: 2007** *ed. 1* *TC BCD 5*  
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 3: Fittings

**BOS ISO 4427-5: 2007** *ed. 1* *TC BCD 5*  
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 5: Fitness for purpose of the system – Specification

**BOS ISO 21003-1: 2008** *ed. 1* *TC BCD5*  
Multilayer piping systems for hot and cold water installations inside buildings –Part 1: General – Specification

**BOS ISO 21003-2: 2008** *ed. 1* *TC BCD5*  
Multilayer piping systems for hot and cold water installations inside buildings Part 2: Pipes - Specification

**BOS ISO 21003-3: 2008** *ed. 1* *TC BCD5*  
Multilayer piping systems for hot and cold water installations inside buildings Part 3: Fittings – Specification

**BOS ISO 21003-5: 2008** *ed. 1* *TC BCD5*  
Multilayer piping systems for hot and cold water installations inside buildings – Specification Part 5: Fitness for purpose of the system

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**91.140.65 Water heating equipment**

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**BOS 321:2014** *ed.1* *TC EED5*  
Fixed electric storage water heaters – General requirements

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## 91.140.70 Sanitary installations

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<b>BOS 236-1: 2007</b> Shower trays - Shower trays made from acrylic material Part 1 Specification	<i>ed. 1</i>	<i>TC BCD5</i>
<b>BOS 291: 2006</b> Flush valves for WC flushing cisterns – Specification	<i>ed. 1</i>	<i>TC BCD5</i>
<b>BOS 292: 2008</b> WC flushing systems (low flushing capacity) that operate with flushing cisterns – Specification	<i>ed. 1</i>	<i>TC BCD5</i>
<b>BOS 293: 2008</b> WC flushing cisterns – Specification	<i>ed. 1</i>	<i>TC BCD5</i>
<b>BOS 315: 2009</b> Stainless steel sit-on sinks with draining boards (for domestic use) – Specification	<i>ed. 1</i>	<i>TC BCD4</i>
<b>BOS 514: 2013</b> Cultured marble sanitary ware – Specification	<i>ed. 1</i>	<i>TC BCD 5</i>

## 91.140.80 Drainage systems

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<b>BOS ISO 4633</b> Rubber seals -- Joint rings for water supply, drainage and sewerage pipelines -- Specification for materials.	<i>ed. 3</i>	<i>TC BCD 5</i>
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## 91.190 Building Accessories

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<b>BOS EN 1935:2002</b> Building hardware - Single - axis hinges - Requirements and test methods
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## 91.220 Construction equipment

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<b>BOS 258: 2007</b> Wooden scaffold board – Specification	<i>ed. 1</i>	<i>TC BCD 7</i>
<b>BOS 330-1: 2011</b> The design, erection, use and inspection of access scaffolding – Part 1: Steel access scaffolding	<i>ed. 1</i>	<i>TC BCD 6</i>

## 93 Civil Engineering

### 93.010 Civil engineering in general

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<b>BOS 163-1: 2008</b> Civil engineering construction – Part 1: General – Specification	<i>ed. 1</i>	<i>TC BCD4</i>
<b>BOS 163-5: 2010</b> Civil engineering construction – Part 5: General (structural)	<i>ed. 1</i>	<i>TC BCD4</i>
<b>BOS 282-1: 2008</b> Signs for street and property identification Part 1: Retro-reflective signs	<i>ed. 1</i>	<i>TC BCD3</i>
<b>BOS 319-8: 2010</b> Construction works – Part 8: Concrete works (structural)	<i>ed. 1</i>	<i>TC BCD4</i>
<b>BOS 319-9: 2010</b> Construction works – Part 9: Concrete works (minor works)	<i>ed. 1</i>	<i>TC BCD4</i>
<b>BOS 378: 2010</b> Concrete retaining blocks – Specification	<i>ed. 1</i>	<i>TC BCD4</i>

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## **93.020 Earthworks. Excavations. Foundation construction. Underground works**

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<b>BOS 163-2: 2008</b>	<i>ed. 1</i>	<i>TC BCD4</i>
Civil engineering construction – Part 2: General (small works) – Specification		
<b>BOS 163-3: 2009</b>	<i>ed. 1</i>	<i>TC BCD4</i>
Civil engineering construction – Part 3: Engineer's office - Specification		
<b>BOS 163-11: 2006</b>	<i>ed. 1</i>	<i>TC BCD3</i>
Civil engineering construction – Part 11: Gabions and pitching – Code of practice		
<b>BOS 163-12: 2005</b>	<i>ed. 1</i>	<i>TC BCD3</i>
Civil engineering construction- Part 12: Earthworks (Roads, subgrade) – Specification		
<b>BOS 163-26: 2008</b>	<i>ed. 1</i>	<i>TC BCD3</i>
Civil engineering construction- Part 26: Bedding (Pipes) – Specification		
<b>BOS 163-28: 2008</b>	<i>ed. 1</i>	<i>TC BCD3</i>
Civil engineering construction- Part 28: Sewers – Specification		
<b>BOS 163-32: 2007</b>	<i>ed. 1</i>	<i>TC BCD3</i>
Civil engineering construction- Part 32: Roads (General) - Specification		
<b>BOS 163-35: 2007</b>	<i>ed. 1</i>	<i>TC BCD 3</i>
Civil engineering construction – Part 35: Base (light pavement structures) – Specification		
<b>BOS 163-37: 2008</b>	<i>ed. 1</i>	<i>TC BCD3</i>
Standardized specification for civil engineering construction Part 37: Asphalt base and surfacing – Specification		
<b>BOS 163-38: 2007</b>	<i>ed. 1</i>	<i>TC BCD 3</i>
Civil engineering construction – Part 38: Segmented paving – Specification		

## **93.025 External water conveyance systems**

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<b>BOS ISO 4427-1: 2007</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 1: General		
<b>BOS ISO 4427-2: 2007</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 2: Pipes – Specification		
<b>BOS ISO 4427-3: 2007</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 3: Fittings		
<b>BOS ISO 4427-5: 2007</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 5: Fitness for purpose of the system – Specification		

## **93.030 External sewage systems**

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<b>BOS 260-2: 2008</b>	<i>ed. 1</i>	<i>TC BCD 5</i>
Fibre cement pipes for drains and sewers Part 2: Manholes and inspection chambers – Specification		

## **93.040 Bridge construction**

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<b>BOS ISO 6446:1994</b>	<i>ed. 1</i> )	<i>TC BCD3</i>
Rubber products -- Bridge bearings -- Specification for rubber materials		

## **93.080 Road engineering**

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### **93.080.01 Road engineering in general**

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<b>BOS 163-40: 2008</b>	<i>ed. 1</i>	<i>TC BCD3</i>
Civil engineering construction – Part 40: Ancillary roadworks – Specification		

## **93.080.20 Road construction materials**

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<b>BOS 29: 2016</b> Concrete paving blocks	<i>ed. 2</i>	<i>TCBCD2</i>
<b>BOS 103: 2011 2<sup>nd</sup> ed.</b> Precast concrete kerbs, edgings and channels - Specification	<i>ed.2</i>	<i>TC BCD 4</i>
<b>BOS 103:2005</b> Precast concrete kerbs, edgings and channels	<i>ed.1</i>	<i>TC BCD4</i>

## **93.080.30 Road equipment and installations**

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<b>BOS 12-1: 2013 2<sup>nd</sup> ed.</b> Road markings – Part 1: Single-pack solvent and water borne paints – Specification	<i>ed. 2</i>	<i>TC CD 1</i>
<b>BOS 107-1: 2005</b> Road signs – Part 1: Retro-reflective sheeting material – Specification	<i>ed. 1</i>	<i>TC BCD 3</i>
<b>BOS 107-2: 2005</b> Road signs – Part 2: Performance requirements for road signs – Specification	<i>ed. 1</i>	<i>TC BCD 3</i>
<b>BOS 282-1: 2008</b> Signs for street and property identification Part 1: Retro-reflective signs	<i>ed. 1</i>	<i>TC BCD 3</i>

## **97 Domestic and commercial equipment. Entertainment. Sports**

### **97.030 Domestic electrical appliances in general**

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<b>BOS IEC 60335-1: 2004</b> Household and similar electrical appliances – Safety – Part 1: General requirements	<i>ed.4</i>	
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#### **97.040.10 Kitchen furniture**

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<b>BOS 314: 2009</b> Steel kitchen cup-boards: Built-in – Specification	<i>ed.1</i>	<i>TC MED 4</i>
<b>BOS 333: 2010</b> Burglar – resistant safes – Specification	<i>ed.1</i>	<i>TC MED 4</i>

### **97.040.20 Cooking ranges, working tables, ovens and similar appliances**

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<b>BOS IEC 60335-2-6: 2002</b> Household and similar electrical appliances – Safety – Part 2-6: Particulars requirements for stationary cooking ranges, hobs, ovens and similar appliances.	<i>ed.5</i>	
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### **97.060 Laundry appliances**

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<b>BOS IEC 60335-2-3: 2002</b> Household and similar electrical appliances – Safety – Part 2-3: Particulars requirements for electric irons.	<i>ed.5</i>	
<b>BOS IEC 60335-2-7: 2002</b> Household and similar electrical appliances – Safety – Part 2-7: Particulars requirements for washing machines.	<i>ed.6</i>	

### **97.080 Polishers**

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### **97.140 Furniture**

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<b>BOS 251-1: 2016</b> Furniture - Part 1: Seating - Specification	<i>ed. 2</i>	<i>TC BCD 8</i>
<b>BOS 251-2: 2016</b> Furniture- Part 2: Desk, tables, and computer stands - Specification	<i>ed. 2</i>	<i>TC BCD 8</i>

<b>BOS 251-3: 2007</b> Furniture- Part 3: Storage unit	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 251-4: 2007</b> Furniture – Part 4: Bunk beds for domestic use – Specification	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 251-5: 2007</b> Furniture – Part 5: High chairs for domestic use – Specification	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 251-6: 2007</b> Furniture – Part 6: Children’s cots for domestic use – Specification	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 295: 2008</b> Classroom furniture – Specification	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 300-1: 2009</b> Laboratory furniture and fittings Part 1 – Introduction	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 300-2: 2009</b> Laboratory furniture and fittings Part 2 - Specification for performance	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 300-3: 2009</b> Laboratory furniture and fittings Part 3 - Recommendations for design	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS 300-4: 2009</b> Laboratory furniture and fittings Part 4 – Recommendations	<i>ed. 1</i>	<i>TC BCD 8</i>
<b>BOS ISO 22878:2004</b> Castors and wheels – Test methods and apparatus		

## **97.150 Non – textile floor coverings**

<b>BOS EN 12199: 1998</b> Resilient floor coverings – Specifications for homogenous and heterogeneous relief rubber floor coverings	<i>ed. 1</i>	<i>TC BCD 2</i>
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## **97.160 Home textile. Linen**

No current standards

## **97.180 Miscellaneous domestic and commercial equipment**

<b>BOS 19: 2000</b> Stationery – Ball point pens	<i>ed. 1</i>	<i>TC CD 2</i>
<b>BOS 119: 2005</b> White chalks — Specification	<i>ed. 1</i>	<i>TC CD 2</i>
<b>BOS 120: 2005</b> Coloured chalks – Specification	<i>ed. 1</i>	<i>TC CD 2</i>
<b>BOS 193: 2006</b> Wood cased pencils and extruded plastic pencils, with graphite lead and coloured lead – Specification	<i>ed. 1</i>	<i>TC CD 2</i>
<b>BOS 712:2017</b> Egg trays — Specification	<i>ed. 1</i>	<i>TC CD 2</i>

## **97.200 Equipment for entertainment**

No current standards

### **97.200.30 Camping equipment and camp-sites**

<b>BOS 50-7:2016</b> Hotels and related establishments – Grading requirements – Part 7: Remote camping grounds – Specification	<i>ed. 1</i>	<i>TC GPD 2</i>
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**BOS 50-8:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 7: Urban camping grounds – Specification

**BOS 50-9:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 9: Wilderness camping grounds – Specification

**BOS 50-10:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 10: Participation tented mobile safaris – Specification

**BOS 50-11:2016** *ed. 1* *TC GPD 2*  
Hotels and related establishments – Grading requirements – Part 11: Non Participation tented mobile safaris – Specification

## **97.200.99 Other equipment for entertainment**

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**No current standards**

## Other Publications

### **BOBS Guide 1: 2009 Guidelines for the structure and drafting of Botswana Standards and other related documents**

This guide specifies rules for the structure and drafting of documents and other associated that are intended to ensure that documents are drafted as in uniform a manner as practicable, irrespective of the technical content. It gives some guidance with regard to presentation and rules to the typography and layout of published documents.

### **BOBS ISO IEC Guide 59: 1994 Code of good practice for standardization - Guide**

This guide was adopted from an International Guide, ISO/IEC Guide 59: 1994 Code of good practice for standardization. They are identical and no changes were effected.

## Withdrawn Standards

Standard Number	Title	Replaced by
BOS 1: 1998	Water taps (metallic)	BOS 1; 2008 2 <sup>nd</sup> ed
BOS 2 – 1:1999	Code of practice for photovoltaic energy system design and Installation – Part 1: Buildings	BOS 2-1:2005
BOS 3 – 7: 1999	The handling, storage and distribution of liquefied petroleum gas in domestic, commercial and industrial institutions - Part 7: Storage and filling sites for refillable liquefied petroleum gas (LPG) containers of capacity not exceeding 48kg	BOS 3 – 7: 2012
BOS 5:1999	Fire hose reels assembly	BOS 5:2009
BOS 6-1: 1999	Symbolic safety signs – Part 1: Standard signs and general requirements	BOS 6-1: 2016
BOS 7: 1999	Emulsion paints	BOS 7: 2015
BOS 8 – 1: 1999	Poultry feeds - Part 1: Chicken feeds	BOS 8 – 1: 2008
BOS 8 – 2: 2002	Poultry feeds – Part 2: Ostrich feeds	BOS 8 – 2: 2012 2 <sup>nd</sup> ed.
BOS 9: 2000	Pre-packaged goods for the ultimate consumer: Labelling, presentation and advertising: General requirements	BOS 9:2014
BOS 10: 2000	Paints and varnishes – Varnish for interior use	BOS 10:2015
BOS 12-1: 2000	Paints and varnishes – Road and runway markings – Specification Part 1: Single-pack solvent and water borne paints	BOS 12-1: 2013 2 <sup>nd</sup> ed.
BOS 24:2000	Concrete roofing tiles	BOS 24:2009
BOS 25: 2000	Animal feeding stuff – Cattle feeds	BOS 25: 2008 2 <sup>nd</sup> ed.
BOS 26: 2000	Cereals – Sorghum grains for human consumption	BOS 26: 2009 2 <sup>nd</sup> ed.
BOS 28: 2000	Burnt clay masonry units	BOS 28: 2016
BOS 29: 2000	Concrete paving blocks	BOS 29: 2016
BOS 31:2000	Water quality – Determination of pH	BOS ISO 10523:2008
BOS 32: 2000	Water quality: Drinking water	BOS 32: 2009 2 <sup>nd</sup> ed.
BOS 32: 2009 2 <sup>nd</sup> ed.	Water quality: Drinking water	BOS 32: 2015 3 <sup>rd</sup> ed
BOS 34:2000	Flexible vinyl floor tiles	BOS 34:2009
BOS 36:2000	Windows, casement doors and sidelights steel frames	BOS 36:2009
BOS 37:2000	Aggregates for roads	
BOS 44:2001	Steel door frames	BOS 44:2009
BOS 50-1: 2009 2 <sup>nd</sup> ed.	Hotels and related establishments – Grading requirements – Part 1: Fully serviced hotels	BOS 50-1: 2014 3 <sup>rd</sup> ed
BOS 50-2: 2009 2 <sup>nd</sup> ed.	Hotels and related establishments – Grading requirements – Part 2: Selected serviced hotels.	BOS 50-2: 2014 3 <sup>rd</sup> ed.
BOS 50-3: 2009 2 <sup>nd</sup> ed.	Hotels and related establishments – Grading requirements – Part 3: Game lodges and camps.	BOS 50-3: 2014 3 <sup>rd</sup> ed
BOS 50-4: 2009 2 <sup>nd</sup> ed.	Hotels and related establishments – Grading requirements – Part 4: Domestic guesthouses.	BOS 50-4: 2014 3 <sup>rd</sup> ed
BOS 50-5: 2009 2 <sup>nd</sup> ed.	Hotels and related establishments – Grading requirements – Part 5: Commercial guesthouses.	BOS 50-5: 2014 3 <sup>rd</sup> ed
BOS 50-6: 2009 2 <sup>nd</sup> ed.	Hotels and related establishments – Grading requirements – Part 6: Self-catering establishments.	BOS 50-6: 2014 3 <sup>rd</sup> ed.
BOS 53:2003	Charge controllers for battery-based photovoltaic Systems	BOS 68-2:2005
BOS 60:2002	Road vehicles – Leaf springs	BOS 60:2009
BOS 61: 2002	Occupational health and safety management systems	BOS OHSAS 18001: 2007
BOS 62:2002	Occupational health and safety management systems Guidelines for the implementation of BOS 61:2002	BOS OHSAS 18002: 2008
BOS 63: 2002	Cereals – Classification and grading of sorghum grains intended for human consumption	BOS 63: 2009 2 <sup>nd</sup> ed.
BOS 66-1: 2003	Classification, labelling and packaging of chemicals	
BOS 68-1:2003	Integrated charge controller – Inverter for photovoltaic battery-based energy systems – Part 1: Total power not exceeding 1000 watts	BOS 68-1:2005
BOS 73: 2004	Concrete non-pressure pipes – Specification	BOS 73: 2011 2 <sup>nd</sup> ed.
BOS 74: 2004	Pre-cast reinforced concrete culverts – Specification	BOS 74: 2011 2 <sup>nd</sup> ed
BOS 75: 2004	Reinforced concrete pressure pipes	BOS 75: 2011 2 <sup>nd</sup> ed
BOS 76: 2004	Precast concrete manhole sections and slabs	BOS 76: 2007 2 <sup>nd</sup> ed.
BOS 81:2004	Polyethylene (PE) pipes for water supply	BOS ISO 4427-1:2007 BOS ISO 4427-2:2007 BOS ISO 4427-3:2007

		BOS ISO 4427-5:2007
BOS 90: 2004	Fruits and vegetables - Citrus fruit – Grading requirements	BOS 90:2014
BOS 93: 2004	Water quality – Waste water – Physical, microbiological and chemical requirements	BOS 93: 2012
BOS 99:2004	Fixing of concrete interlocking roofing tiles	BOS 99:2009
BOS 109:2004	The laying of wood floors	BOS 269:2008
BOS 111:2005	Hand dishwashing and light duty detergent (liquid)	BOS 111:2015
BOS 112:2005	Detergent – disinfectants based on stabilized inorganic chlorine compounds	BOS 112:2015
BOS 113:2005	Detergent – disinfectants based on quaternary ammonium compounds	BOS 113:2015
BOS 115:2005	Bakery products – Loaf of bread	BOS 115:2015
BOS 116: 2005	Pneumatic tyres for passenger cars and their trailer – Specification	BOS 116: 2011
BOS 117: 2005	Pneumatic tyres for commercial vehicles and their trailers – Specification	BOS 117: 2011
BOS 126: 2005	Milk and milk products – Ultra high temperature treated cow's milk.	BOS 126: 2013
BOS 144:2005	Wax emulsion polish for floors and furniture – Specification	BOS 144:2011
BOS 147:2005	Scouring power: synthetic detergent base	BOS 147:2009
BOS 157: 2005	Cereals Sorghum meal and sorghum flour	BOS 157: 2016 3 <sup>rd</sup> ed.
BOS 158: 2005	High penetration-resistant laminated safety glass for vehicles – Specification	BOS 158: 2011
BOS 159: 2005	Laminated safety glass for vehicles – Specification	BOS 159: 2011
BOS 160: 2005	Toughened safety glass for vehicles – Specification	BOS 160: 2011
BOS 167:2006	Polyolefin film for damp-proofing and waterproofing in buildings	BOS 167 – 1:2015
BOS 184:2006	Solvent emulsion degreasers	BOS 184:2015 2 <sup>nd</sup> ed.
BOS 199: 2006	Honey – Specification	BOS 199: 2014
BOS 251-1: 2007	Furniture- Part 1: Seating	BOS 251-2: 2016 2 <sup>nd</sup> ed
BOS 251-2: 2007	Furniture- Part 2: Desk, tables, and computer stands - Specification	BOS 251-2: 2016 2 <sup>nd</sup> ed.
BOS 245:2008	Chemical resistant gloves	BOS 245:2015
BOS 247 – 1:2007	Performance requirements for retail textiles – Part 1: Household piece goods and articles	BOS 247 – 1:2016
BOS 247 – 2:2007	Performance requirements for retail textiles – Part 2: Piece for women's and girls' wear	BOS 247 – 2:2016
BOS 247 – 3:2007	Performance requirements for retail textiles – Part 3: Piece for men's goods and boy's wear	BOS 247 – 3:2016
BOS 257:2007	Commercial transportation of LPG in cylinders up to a maximum individual water capacity of 48kg by road	BOS 257:2015 2 <sup>nd</sup> ed.
BOS 274:2008	Plastics piping systems – Thermoplastics shafts or risers for inspection chambers and manholes – Determination of resistance against surface and traffic loading	BOS ISO 13266:2010
BOS 370: 2010	Detergent skin cleansers	BOS 370:2015
BOS EN 397:1995	Industrial safety helmets – Requirements	BOS 397:2012 + A1:2012
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