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INTRODUCTION

The purpose of this document is twofold:

- 1) To provide Manufacturers and Exporters with technical information on compliance requirements in support of Shipment certification, Registration and Licensing procedures.
- 2) To provide PCP approved laboratories with information on the performance of Pre-supply Testing

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E	Lists the specific tests to be performed or alternatively test data to be evaluated by a PCP approved laboratory for the purpose of pre-supply testing, or testing as part of the Registration Verification review process, or as a part of the annual Licensing renewal.	5- 10
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SECTION A: Scope of Category

Products Covered Under this Category	Products Excluded from this Category
Western water closets (Ceramic/Plastic/Iron/Steel)	Whirlpool Baths (These are covered under product category II-49)
Eastern water closets (Ceramic/Plastic/Iron/Steel)	Sauna Heaters and the like (These are covered under product category II-49)
Bidets (Ceramic/Plastic/Iron/Steel)	
Wash basins (Ceramic/Plastic/Iron/Steel/Brass)	
Bath tubs (Ceramic/Plastic/Iron/Steel)	
Shower-baths, hoses, water spraying appliances	
Urinals (Ceramic/Iron/Steel)	
Flushometer valves	
Flushometer tanks (Flushing Cisterns)	
UPVC piping and fittings	
Flushing apparatus including inlet valves (Ballcocks)	
Taps	
Plastic piping and fittings for water	
Plastic piping and fitting for drains and sewers	
Water filtering or purifying machinery and their parts	
Brass/Copper/Steel tubes, pipes and fittings for sanitary application	
Kitchen Sinks	
Polypropylene Pipes for Cold and Hot Water Use	
Drain Covers	
Gate Valve	

SECTION B: Saudi and Equivalent/Other Applicable Standards

Saudi Standard	Equivalent /Othe Applicable Standard	Title
SASO 14/1998	GS 675/1998	Unplasticized Polyvinyl Chloride (UPVC) Pipes for Potable Water
SASO 15/1998	GS 676/1998	Methods of Testing of Unplasticized Polyvinyl Chloride (UPVC) Pipes for Potable Water
SASO 862/1994	GS 495/1994	Polybutylene (PB) Plastic Tubing for Water
SASO 1024/1998	GS 1013/1997	Ceramic Sanitary Appliances – Methods of Test for General Requirements
SASO 1025/1998	GS 1012/1997	Ceramic Sanitary Appliances – General Requirements
SASO 1209/1997	GS 898/1997	Unplasticized Polyvinyl Chloride (UPVC) Pipes for Soil, Waste and Vent Inside the Buildings
SASO 1257/2007	GS 944/1997	Sanitary Appliances: Flushing Water Tanks
SASO 1258/1998	GS 945/1997	Ceramic Sanitary Appliances – Eastern Water Closets and Traps

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SASO 1259/1998	GS 946/1998	Ceramic Sanitary Appliances: Methods of Test for Eastern Water Closets and Traps: Eastern Water Closets
SASO 1395/1998		Unplasticized Polyvinyl Chloride (UPVC) Pipes for Buried Drains and Sewers
SASO 1473/2008	GS 1427/2008	Ceramic Sanitary Appliances – Western Water Closets
SASO 1474/1999		Ceramic Sanitary Appliances – Methods of Test for Western Water Closets
SASO 1475/1999		Ceramic Sanitary Appliances – Bidets
SASO 1476/1999		Ceramic Sanitary Appliances – Wash Basins
SASO 1477/1999		Sanitary Appliances – Pressurized Flushing Devices
SASO 1478/1999		Sanitary Appliances – Methods of Test for Pressurized Flushing Devices
SASO 1479/1999		Sanitary Appliances – Methods of Test for Flushing Water Tanks
SASO 1480/1999		Sanitary Appliances – Flushing Apparatus
SASO 1738/2002	GS 1189/2002	Polypropylene Pipes for Cold and Hot Water Use
SASO 1739/2002	GS 1190/2002	Methods of Testing Polypropylene Pipes for Cold and Hot Water Use
SASO 1913/2001		Sanitary Appliances-Tapware: Shower and Spray Hoses
SASO 1914/2001		Sanitary Appliances-Tapware: Methods of Test Shower and Spray Hoses
	EN 198/1987	Baths for Domestic Purposes made of Acrylic Material, Part 1: Specification for Finished Baths
	EN 263/1987	Crosslinked Cast Acrylic Sheet for Baths and Shower Trays for Domestic Purposes
	EN 200	Sanitary tapware - Single taps and combination taps (PN 10) - General technical specification
	EN 248	Sanitary tapware. General specification for electrodeposited coatings of Ni-Cr
	EN 274-1	Waste fittings for sanitary appliances
	EN 695	Kitchen sinks -connecting dimensions
	EN 817	Sanitary tapware - Mechanical mixers (PN 10) - General technical specifications
	EN 1111	Sanitary tapware - Thermostatic mixing valves (PN 10) - General technical specification
	EN 1213	Building valves. Copper alloy stopvalves for potable water supply in buildings. Tests and requirements
	EN 1286	Sanitary tapware - Low pressure mechanical mixing valves - General technical specification
	EN 1287	Sanitary tapware - Low pressure thermostatic mixing valves - General technical specifications
	EN 13310	Kitchen sinks — Functional requirements and test methods
	BS 5412	Specification for low-resistance single taps and combination tap assemblies (nominal size ½ and ¾) suitable for operation at PN 10 max. and a minimum flow pressure of 0.01 MPa (0.1 bar)
	BS 5779	Specification for spray mixing taps
	BS 5388	Specification for spray taps

Note: Information on additional standards and products can be found on "**CD-495: Revised List of Sanitary Appliances within Product Category**"

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SECTION C: KSA PCP Registration Procedures and Essential Requirements

- The product to be registered shall be identified by its type designation. Products of the same electrical and/or mechanical construction, being equal in all safety related aspects, may be defined by one family type designation/model number. This designation must be identifiable on the product(s).
- It is desirable that the Registration declaration refers to relevant Saudi standard(s) wherever possible. The declaration may however refer to any relevant international, regional or national standard provided the Saudi Essential Requirements listed below are also satisfied.
- Standard references must be clearly identified by issue number, date and the like.
- Any test data provided to substantiate the Registration declaration must make clear reference product identification model(s), the laboratory name and appropriate standard(s).
- Any test data to be evaluated for compliance shall be examined towards the applicable standard or standards, including the relevant Saudi Essential Requirements

ESSENTIAL REQUIREMENTS	
INSTRUCTION MANUAL	Language of instruction manual according to applicable SASO/ International standards (i.e. Manuals will be in the official language of the country where the product is intended to be sold - Arabic)
COUNTRY OF ORIGIN	All products shall be marked with Country of Origin (MoCI Royal Decree No. M/5, CD-444R3)
OTHERS	Products shall not be offensive to the Islamic religion. In particular they shall not include derivatives from pigs or pictures of pigs, pig shapes or crosses.
	Any pictures that may be offensive to the Islamic religion are forbidden on products and packaging.
	Cautionary and warnings marking, if applicable shall be marked at least in the Arabic language.
	<u>Flushing Water Tanks:</u> The average discharge capacity of Water Tanks shall not exceed 6.0 Litres (SASO 1257, 5.4.1)
	<u>Western Water Closets:</u> The average flushing volume of Western Water Closets shall not exceed 6.0 Litres (SASO 1473, 5.3.1)



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SECTION D: KSA PCP Type Approval Licensing

- (1) Product Evaluation
Products must be evaluated for full compliance with the Saudi Standards listed in Section B, including the relevant Saudi Essential Requirements listed in Section C. If the national Saudi standard is outdated or deviates heavily from the international equivalents, the relevant international standard may be used in conjunction with the Saudi Essential Requirements listed in Section C.

- (2) Factory Inspection/Audit
All manufacturing sites must be inspected to confirm the existence of an on-going quality and product control system satisfying KSA PCP requirements.

- (3) Annual Surveillance
Samples may be selected for minimum verification tests as a part of annual routine inspections. Periodic pre-supply inspection will be performed.

SECTION E: Pre-Supply Tests For PCP Approved Laboratories

Upon receipt of samples for pre-supply testing, Laboratories are to proceed as follows:

- (1) Examine the products to be tested and identify the applicable standard or standards from Section B.
- (2) Consult the tables given below and select only the test tables relevant to the standards you have selected in (1)
- (3) Read and note the Saudi Essential Requirements given in Section C and incorporate these points in your testing procedures.
- (4) Perform **only** the tests identified in the relevant test tables. (Laboratories are **not** to test to the complete standard unless specifically advised to do so). Saudi Standard test methods have been referenced where they exist.
- (5) Read Section F and include those requirements, which are not included in the test tables of the testing procedures.

Note:

All ceramic sanitary appliances like closets, washbasins, urinals, bathtubs, bidets and flushing tanks are to meet general requirements as per SASO 1025/1998. Where specific product standard(s) exist then the requirements of the specific standard(s) supersede the requirements of SASO 1025/1998.

Ceramic sanitary appliances may show imperfections in cosmetic finish that exceed the limits given in SASO 1025/1998, Clause 5.3, but nevertheless meet all other requirements of the standard in being both serviceable and safe. In such cases, the products are acceptable but deemed to be *Second Grade* and it is important that they are clearly marked as such.

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SASO 1025/1998, SASO 1024/1998

Remark: General requirements for all ceramic sanitary appliances like closets, washbasins, urinals, bathtubs, bidets and flushing tanks

No.	Test	Requirement Standard Ref. SASO 1025/1998	Test Method Standard Ref. SASO 1024/1998
1	Visual examination of appearance	5.6	2
2	Thickness	5.5	9
3	Dimensions and tolerances	6	9
4	Water absorption	5.7	3
5	Crazing	5.8	4
6	Chemical resistance	5.9	5
7	Resistance to staining and burning	5.10	6
8	Abrasion resistance	5.11	7
9	Warpage	5.6	8

SASO 1476/1999, SASO 1024/1998

Remark: Applicable for ceramic Wash basins

No.	Test	Requirement Standard Ref. SASO 1476/1999	Test Method Standard Ref. SASO 1024/1998
1	Dimensions	5.2.1 & 5.2.2	---
2	Waste hole	5.2.3	---
3	Overflow hole	5.2.4	---
4	Pedestals	5.2.5	---
5	Tap platform	5.2.8	---

SASO 1473/2008, SASO 1474/1999

Remark: Applicable for ceramic western water closets

No.	Test	Requirement Standard Ref. SASO 1473/2008	Test Method Standard Ref. SASO 1474/1999
1	Dimensions and tolerances	5.2.1	---
2	Safety load	5.3.8	12
3	Flushing volume <i>(Note: The average flushing volume shall not exceed 6 Litres)</i>	5.3.1	4
4	Removal of solids	5.3.2	5
5	Ink test	5.3.3	6
6	Dye test	5.3.4.1	7
7	Water rise test	5.3.5	8
8	Rim top and seat fouling	5.3.6	9
9	Leakage and holding capacity	5.3.7	10
10	Liquid holding capacity	5.2.4	11

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SASO 1258/1998, SASO 1259/1998

Remark: Applicable for ceramic Eastern water closets

No.	Test	Requirement Standard Ref. SASO 1258/1998	Test Method Standard Ref. SASO 1259/1998
1	Dimensions and tolerances	4.2.1	---
2	Flushing volume	4.3.1	4.0
3	Removal of solids	4.3.2	5.0
4	Washing or flushing	4.3.3	6.0
5	Pan holding capacity	4.3.4	7.0

SASO 1475/1999, SASO 1024/1998

Remark: Applicable for Ceramic Bidets

No.	Test	Requirement Standard Ref. SASO 1475/1999	Test Method Standard Ref. SASO 1024/1998
1	Visual examination	---	---
2	General requirements	5.2.4, 5.2.5, 5.2.6	---
3	Dimensions and tolerances	5.2.1, 5.2.2, 5.2.3	---

SASO 1257/2007

Remark: Flushing water tanks – General and plastic types

No.	Test	Requirement Standard Ref. SASO 1257/2007	Test Method Standard Ref. SASO 1257/1998
1	Thickness and dimensions	5.1.2	7.3.5
2	Discharge capacity <i>(Note: The average discharge capacity shall not exceed 6 Litres)</i>	5.4.1	5.4.1
3	Rate of flush discharge	5.4.2	5.4.2
4	Leakage	5.4.3	---
5	Back siphonage	5.2.3	5.4.4

Additional tests for Plastic water tanks only

1	Distortion resistance	5.1.2.4 (b)	5.1.2.4 (b)
2	Colour fastness to light	5.1.2.4 (c)	5.1.2.4 (c)
3	Opacity	5.1.2.4 (c)	5.1.2.4 (c)

SASO 1480/1999

Remark: Flushing apparatus (ballcocks, used in gravity type flushing water tank)

No.	Test	Requirement Standard Ref. SASO 1480/1999	Test Method Standard Ref.
1	Visual examination	5.1.1, 5.1.2	---
2	Working pressure and temperature	5.2.1, 5.2.7	---
3	Back siphonage	5.3.1	---
4	Life cycle	5.3.2	---
5	Vibration or water hammer	5.2.4	---
6	Dead load test	5.3.3.2	---



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SASO 1477/1999, SASO 1478/1999

Remark: Pressurized flushing (flushometer valves)

No.	Test	Requirement Standard Ref. SASO 1477/1999	Test Method Standard Ref. SASO 1478/1999
1	Visual examination	5.2.1.1	---
2	Discharge capacity	5.2.4, 5.2.9, 5.3.1	3
3	Rate of flush discharge	5.3.2	4
4	Leakage	5.3.3	5
5	Back siphonage	5.3.4	6
6	Life cycle	5.3.5	7

SASO 1738/2000, SASO 1739/2000

Remark: Polypropylene Pipes for Cold and Hot Water Use

No.	Test	Requirement Standard Ref. SASO 1738/2000	Test Method Standard Ref. SASO 1739/2000
1	Visual inspection	9.2.1	3
2	Dimension	9.2.2	4
3	Density	9.2.3	10
4	Met flow Rate	9.2.4	5
5	Tensile strength and elongation at break	9.2.5	11
6	Stress resistance	9.2.6	7
7	Heat reversion test	9.2.7	9
8	Opacity test	9.2.8	12
9	Impact Resistance	9.2.9	8

SASO 1913/2001, SASO 1914/2001

Remark: Shower and spray hoses

No.	Test	Requirement Standard Ref. SASO 1913/2001	Test Method Standard Ref. SASO 1914/2001
1	Dimensions	5.3.2	---
2	Hydraulic test	5.3.4	3.0
3	Tensile strength	5.3.5.1	4.1
4	Pressure resistance at elevated temperature	5.3.5.2	4.2
5	Flexing durability	5.3.5.3	4.3
6	Thermal shock resistance	5.3.5.4	4.4
7	Rotary connection	5.3.6	5.0

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SASO 14/1998, SASO 15/1998

Remark: Pipes for potable water

No.	Test	Requirement Standard Ref. SASO 14/1998	Test Method Standard Ref. SASO 15/1998
1	Visual inspection	6.2.1	---
2	Dimension	4.5, 4.6, 4.7 & 4.8	3.0
3	Stress	4.9	4.0
4	Impact	4.10	5.0
5	Opacity	4.11	6.0
6	Heat reversion	4.12	7.0
7	Extrusion	4.13	8.0
8	Water absorption	4.14	9.0
9	Toxic matters	4.15	10.0
10	Resistance to sulphuric acid	4.16	11.0

SASO 1395/1998, SASO 15/1998

Remark: Pipes for buried drains and sewers

No.	Test	Requirement Standard Ref. SASO 1395/1998	Test Method Standard Ref. SASO 15/1998
1	Visual inspection	4.2	---
2	Dimensions	4.5	3.0
3	Ovality	4.6	3.0
4	Stress resistance	4.7	4.0
5	Impact	4.8	5.0
6	Opacity	4.9	6.0
7	Heat reversion	4.10	7.0
8	Extrusion	4.11	8.0
9	Water absorption	4.12	9.0
10	Sulphuric acid resistance	4.13	11.0
11	Alkali resistance	4.14	---

EN 198/1987

Remark: Baths for domestic purposes made of acrylic materials, Part 1: specification for finished baths

No.	Test	Requirement Standard Ref. EN 198/1987	Test Method Standard Ref. EN 198/1987
1	Visual inspection	2.3, 2.4, and 2.7	---
2	Marking	10	---
3	Dimensions	5	Annex A2
4	Resistance to temperature changes	6	Annex A3
5	Resistance to domestic chemicals and stains	7	Annex A4
6	Resistance to impact	8	Annex A5
7	Deflection	9	Annex A6



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EN 263/1987

Remark: Cast acrylic sheet for baths and shower trays for domestic purposes

No.	Test	Requirement Standard Ref. EN 263/1987	Test Method Standard Ref. EN 263/1987
1	Visual inspection	3	---
2	Viscosity number	4	---
3	Tensile strength	4	Annex A1
4	Thermal stability	5	Annex A2
5	Colour fastness to hot water	7.2	Annex A3
6	Chemical and stain resistance	8	Annex A4
7	Resistance to hot water	9	Annex A5

Applicable Saudi or ISO or Equivalent international standard

Remark: Other products

No.	Test	Requirement Standard Ref.	Test Method Standard Ref.
1	Dimensions	---	---
2	Essential Chemical properties	---	---
3	Essential Physical properties	---	---
4	Marking	---	---


Note: For requirement limits specific Saudi standards are to be referred if available, else appropriate ISO/ EN/ Equivalent International standards are to be referred.

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Section F – Additional Inspection Requirements (AIR)

Note: This document should be used separately by Country Offices for pre-supply inspection purposes.

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I Eastern Water Closets (Ceramic Type):

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
SASO 1025, 5.2.1	The glaze shall be thoroughly fused to the body.	
SASO 1025, 5.2.2	All exposed surfaces shall be glazed except surfaces, which are not visible when the appliance is installed in the normal manner.	
SASO 1025, 5.4	The colour distribution shall be homogeneous in all areas except the colour of the edges and curves, which may be lighter. <i>See note 1 on page 30</i>	
SASO 1025, 5.6.4	The water closet shall not show any blemish or defect like wavy finish, warpage, discolouration, spots, blisters, pin holes etc in excess of table 1	
SASO 1258, 4.2.1	It shall be of one piece.	
SASO 1258, 4.2.2	It shall have an integral flushing rim of open or box type.	
SASO 1258, 4.2.3	The inside of the pan shall be glazed regular and smooth.	
SASO 1258, 4.2.4	It shall be provided with a trap.	
SASO 1258, 4.2.6	The water seal height in the trap shall be a minimum of 50 mm.	
SASO 1258, 4.2.7	The pan shall be provided with a fluted footrest to prevent sliding.	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1258, 5	Eastern water closet pans and traps shall be permanently marked with the following information:	
SASO 1258, 5.1	The manufacturer's name or his registered mark or both. The mark shall be so located as to be visible as much as possible after the appliance is installed. In case of difficulty in finding an appropriate visible location, the marking shall be located elsewhere.	
SASO 1258, 5.4	Country of origin.	
SASO 1258, 7.2	All second grade water closets shall be indelibly marked with two parallel lines cut on the surface of the water closet at the location shown in figure 1. These cuts shall be filled with a bright red permanent marking. <i>See note 1 on page 30</i>	
SASO 1258, 7.3	All packages containing second-grade appliances shall be clearly identified with two red marks adjacent to appliance identification.	

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II Western Water Closets (Ceramic Type):

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
SASO 1025, 5.2.1	The glaze shall be thoroughly fused to the body.	
SASO 1025, 5.2.2	All exposed surfaces shall be glazed except for the following: <ul style="list-style-type: none"> – Surfaces coming into contact with walls or floors – Undersides of the drain outlet or over flow outlets – Surfaces not visible when tubs are installed in the normal manner 	
SASO 1025, 5.3	The glazed finish shall be homogeneous and free from crazing, projections or any other defects (spots, blisters, and pin holes should not exceed the limitation of table 1). <i>See note 1 on page 30</i>	
SASO 1025, 5.4	The colour distribution shall be homogeneous in all areas, however the colour of the edges and curves maybe lighter.	
SASO 1473, 5.2.1.1	Floor-mounted and wall-hung water closet pans shall be of one-piece construction.	
SASO 1473, 5.2.1.3.1	Child's water closet bowls shall be (255±15) mm from the floor to the top of the rim.	
SASO 1473, 5.2.1.3.2	Handicapped /elderly water closet bowls shall be (455±15) mm from the floor to the top of the rim.	
SASO 1473, 5.2.2	The flushing rim and inlet shall be self-draining and shall be so constructed as to permit ready access air to the flush pipe at the end of the flush.	
SASO 1473, 5.2.3	The pan shall have an integral trap providing a depth of water seal not less than 50 mm.	
SASO 1473, 5.2.5	Holes shall be provided for the attachment of the seat to the pan. The diameter of a hole shall be 11 mm minimum. A flat area on the underside of the pan not less than 25 mm wide shall be provided around the center of the hole to accommodate washers and nuts to fix the seat to the pan.	
SASO 1473, 5.2.6.1	Floor mounted pans shall be made for fixing the pan in position with at least one screw on either side of the base. Screw holes shall have a minimum diameter of 6mm.	
SASO 1473, 5.2.6.2	Wall hung pans shall be provided with an integral means to be built into or fixed to a wall with brackets or other separate means of support supplied by the manufacturer.	
SASO 1473, 5.3.1	The average flushing volume shall not exceed 6.0 Litres	

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2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1473, 6.0	Water closet pans shall be marked in a legible readily identifiable and permanent way with the following:	
SASO 1473, 6.1	Manufacturer's name or his registered trade mark or both. The mark shall be located so as to be visible as much as possible after the appliance is installed. In case of difficulty in finding an appropriate visible location, the marking shall be located elsewhere.	
SASO1473, 6.4	Country of origin	
1473, 6.5	Model identification	
1473, 7.2	All second grade water closet pans shall be indelibly marked by the maker with two parallel lines cut on the surface of the water closet pans at the location shown in figure 1 . These cuts shall be filled with a bright red permanent marking. All packages containing second-grade appliances shall be clearly identified with two red marks adjacent to appliance identification. <i>See note 1 on page 30</i>	



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III Bidets (Ceramic Types):

1. Physical Requirements


Standard Reference	General Physical Requirement	Complies (Y/N)
SASO 1025, 5.2.1	The glaze shall be thoroughly fused to the body.	
SASO 1025, 5.2.2	All exposed surfaces shall be glazed except surface not visible when the appliance is installed in the normal manner.	
SASO 1025, 5.3	The glazed finish shall be homogeneous and free from crazing, projections or any other defects.	
SASO 1025, 5.4	The colour distribution shall be homogeneous in all areas, however the colour of the edges and curves may be lighter. <i>See note 1 on page 30</i>	
SASO 1025, 5.6	Blemishes or defects should not exceed the limitation of table 1	
SASO 1475, 5.2.4	Tap platforms: Where the tap holes are provided, the underside of the tap platform around the holes shall be so constructed as to provide a flat area around the center of the hole with a maximum thickness of 20 mm and a minimum diameter of 60 mm in order to accommodate the nut and washer of the tap. The level of the top of the platform, which accommodates the supply taps, shall not be below the spillover level of the bidet irrespective of the position of the overflow hole.	
SASO 1475, 5.2.5	Floor fixing holes: A minimum of two floor-fixing holes shall be provided.	
SASO 1475, 5.2.6	Over flow hole: An overflow hole shall provided with an aperture area of not less than 300 mm ² .	

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2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1475, 6.0	Every bidet shall be marked in a legible, readily identifiable and permanent way with the following:	
SASO 1475, 6.1	Manufacturer's name or his trade name or both. The mark shall be located so as to be visible as much as possible after the appliance is installed. In case of difficulty in finding an appropriate visible location, the marking shall be located elsewhere.	
SASO 1025, 7.2	All second grade bidets shall be indelibly marked by the maker with two parallel lines cut on the surface of the bidet at the location shown in figure 1 . These cuts shall be filled with a bright red permanent marking, which is resistant to the action of hot water. All packages containing second-grade appliances shall be clearly identified with two red marks adjacent to appliance identification. <i>See note 1 on page 30</i>	
SASO 1475, 6.4	The country of origin.	
SASO 1475, 6.5	Model.	

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IV Flushing Apparatus:

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
SASO 1480, 5.1.1, 5.1.2	The apparatus shall be of non-corroding type or protected against corrosion.	
SASO 1480, 5.2.6	The inlet valve shall be equipped with means to prevent back flow of water from the tank.	
SASO 1480, 5.3.3.1	Siphonic type flushing apparatus shall be operated by a lever, handle or push button operating mechanism. When the lever or the handle for operating the flushing apparatus projects from the side of the water tank it shall not extend more than 380 mm from the centre of the tank.	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1480, 6.0	Every flushing apparatus shall be marked in a legible, readily identifiable, and permanent way with the following:	
SASO 1480, 6.1	Manufacturer's name or his trademark or both	
SASO 1480, 6.3	The country of origin	



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V Pressurized Flushing Devices (Flushometer Valves):

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
SASO 1477, 5.1.1	Materials used shall be free from any defects.	
SASO 1477, 5.1.2	The materials used for the flushometer valves and flushometer tanks shall be non-corroding type or protected against corrosion.	
SASO 1477, 5.2.5	It shall be provided with a back flow prevention device.	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1477, 6.0	Every flushometer valve or flushometer tank shall be marked in a legible, readily identifiable and permanent way with the following:	
SASO 1477, * 6.1	Manufacturer's name or his trademark or both.	
SASO 1477, * 6.3	The country of origin.	

* **Note:** This marking is not required on the flushometer valve if it is marked on the flushing tank.

3. Instruction Manual Requirements

Standard Reference	General Instruction Manual Requirements	Complies? (Y/N)
SASO 1477, * 5.3.7	Installation instructions shall be provided with each unit.	
SASO 1477, 5.3.7	Instruction shall include valve adjustment information, and every special finishing installation or repair procedures for accessory devices or replacement parts.	

* **Note:** Can be of any type: booklets, leaflet, insert, etc.



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VI Flushing Water Tanks:

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
SASO 1257, 5.1.1 (a & b)	Water tank shells shall be made from materials of non-corrosive type or protected against the types of corrosion caused by the action of water with which the water tank is to be used.	
SASO 1257, 5.1.3	Cover of the water tank shall be made of the same material as the body.	
SASO 1257, 5.2.1	The water tank shall be designed to allow sufficient access for adjustment and maintenance of the internal components.	
SASO 1257, 5.2.1	Removable covers shall be secured against sliding.	
SASO 1257, 5.2.6	A water line shall be marked permanently inside the water tank in such a position that it is easily visible to the person adjusting the water level.	
SASO 1257, 5.4.1	The average discharge capacity of the water tanks shall not exceed 6.0 litres	
Applicable for flushing water tanks made of cast iron		
SASO 1257, 5.1.2.1	The shell thickness of the tank shall not be less than 5 mm.	
SASO 1257, 5.1.2.1	The internal and external surfaces of the shell shall be coated with anti-corrosive paints.	
Applicable for flushing water tanks made of pressed steel		
SASO 1257, 5.1.2.3	All surfaces of the shell shall be coated with vitreous enamel.	
SASO 1257, 5.1.2.3	The steel shall be of thickness not less than 1.6 mm before enamelling.	
Applicable for flushing water tanks made of plastic		
SASO 1257, 5.1.2.4 (a)	Tanks shall be free from blisters. It shall be free from colour variations on surfaces visible after installation.	

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2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1257, 6.0	Every water tank shall be marked in a legible readily identifiable and permanent way with the following:	
SASO 1257, 6.1	Manufacturer's name or his registered mark or both. The mark shall be located so as to be visible as much as possible after the appliance is installed. In case of difficulty in finding an appropriate visible location, the marking shall be located elsewhere.	
SASO 1257, 6.3	The country of origin	
SASO 1257, 7.2	All second grade tanks shall be indelibly marked by the maker with two parallel lines cut on the surface of the tank at the location shown in figure 1 . These cuts shall be filled with a bright red permanent marking. All packages containing second-grade appliances shall be clearly identified with two red marks adjacent to appliance identification. <i>See note 1 on page 30</i>	



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VII Bath Tubs (Ceramic Types):

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
Applicable for Ceramic Bathtubs		
SASO 1025, 5.2.1	The glaze shall be thoroughly fused to the body.	
SASO 1025, 5.2.2	All exposed surfaces shall be glazed except for the following: <ul style="list-style-type: none">– Surfaces coming into contact with walls or floors– Undersides of the drain outlet or over flow outlets– Surfaces not visible when tubs are installed in the normal manner	
SASO 1025, 5.4	The colour distribution shall be homogeneous in all areas, however the colour of the edges and curves maybe lighter. <i>See note 1 on page 30</i>	
SASO 1025, 5.5	The thickness at any point of the tub shall not be less than 6 mm.	
Applicable for Acrylic Bathtubs		
EN 198, 2.2	The bath shall be free from sharp edges.	
EN 198, 2.3	There shall be no evidence of cracks, chips, or other surface defects, such as unexpected changes in colours that will impair the appearance or performance of the bath.	
EN 198, 2.4	The bath shall have a waste outlet hole.	
EN 198, 2.5	The baths shall have an over flow hole.	
EN 198, 2.7	The edges of any holes in the bath shall not show evidence of chips, cracks, or any other defects that will impair the appearance or performance of the bath.	
EN 198, 4.1	The bath rims shall enable water to return to the inside of the bath.	


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2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
Applicable for Ceramic Bathtubs		
SASO 1025, 7.0	Every tubs shall be marked in a legible, readily identifiable and permanent way with the following:	
SASO 1025, 7.1	Manufacturer's name or his registered mark or both. The mark shall be located so as to be visible as much as possible after the appliance is installed. In case of difficulty in finding an appropriate visible location, the marking shall be located elsewhere.	
SASO 1025, 7.2	All second grade tubs shall be indelibly marked by the maker with two parallel lines cut on the surface of the tub at the suitable location. These cuts shall be filled with a bright red permanent marking, which is resistant to the action of hot water. All packages containing second-grade appliances shall be clearly identified with two red marks adjacent to appliance identification. <i>See note 2 on page 30</i>	
SASO 1025, 7.4	The country of origin	
Applicable for Acrylic Bathtubs		
EN 198, 10	Every bath tubs shall be legibly marked on the underside with the following:	
EN 198, 10	The manufacturers name and /or his registered trade mark;	
MoCI Royal Decree No. M/5	The country of origin	



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VIII Polypropylene Pipes:

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
<i>Applicable for Pipes for Potable Water</i>		
SASO 1738, 6.2	The internal and external surfaces of the pipe shall be smooth, clean and free from grooves, cracks, holes or any other defects. The pipe ends shall be perpendicular to the axis of the pipe, smoothly cut and free from chips and rough edges.	
SASO 1738, 7.1	Storage and transportation of pipes shall be carried in such a way as to preserve their dimensions and properties.	
SASO 1738, 7.2	All pipes ends shall be adequately plugged or properly covered in order to protect them from damage	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1913, 6.0	Every shower and spray hoses shall be marked in a legible, readily identifiable and permanent way with the following:	
SASO 1913, 6.1	Manufacturer's name or his registered mark or both	
SASO 1913, 6.3	The country of origin	

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IX Shower and Spray Hoses:

2. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
<i>Applicable for Pipes for Potable Water</i>		
	The product shall be free from any manufacturing defects.	
	The product shall be of good finish.	
	There shall be no crack or any apparent defect on the shower.	
	All metal parts used in the manufacture of the product shall be made from corrosion resistant material or suitably protected against corrosion.	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1913, 6.0	Every shower and spray hoses shall be marked in a legible, readily identifiable and permanent way with the following:	
SASO 1913, 6.1	Manufacturer's name or his registered mark or both	
SASO 1913, 6.3	The country of origin	



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X Unplasticized Polyvinyl Chloride (UPVC) Pipes:

3. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
<i>Applicable for Pipes for Potable Water</i>		
SASO 14, 4.2.	The pipes shall be reasonably straight and have a homogeneous colour.	
SASO 14, 4.3	The inner and outer surfaces shall be smooth, clean and free from grooves, cracks, holes or any other defects or foreign matters.	
SASO 14, 4.4	The terminals shall be neat, smooth and perpendicular to the axis of the pipe.	
SASO 14, 4.5	The pipes shall be round.	
SASO 14, 4.8	The pipe length shall be supplied in effective lengths (from 6 to 12) m and with tolerance not more than ± 10 mm.	
<i>Applicable for Pipes for Buried Drains and Sewers</i>		
SASO 1395, 4.2.1	The pipe shall be apparently straight with circular cross section and with uniform brown colour.	
SASO 1395, 4.2.2	Their inner and outer surfaces shall be smooth, free from grooves, cracks, furrows with sharp edges, foreign materials, moles or any other defects. Flat furrow and slight undulations are permissible.	
SASO 1395, 4.2.3	The terminals shall be neat, smooth and perpendicular to the axis of the pipe.	
SASO 1395, 4.5.1	The pipes shall be supplied in effective lengths of 3, 6, or 9 m and the tolerance shall not be more than ± 10 mm.	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 14, 7.0 & 1395, 7.0	The following information shall be legibly and indelibly written either in Arabic or Arabic and English in an apparent place of the pipe.	
SASO 14, 7.1	The nominal outside diameter.	
SASO 14, 7.2	The nominal wall thickness.	
SASO 14, 7.3	The manufacturer's name or his registered trademark.	
SASO 14, 7.4	The country of origin.	
SASO 14, 7.6	Date of manufacture.	


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XI Wash Basins (Ceramic Type):

4. Physical Requirements


Standard Reference	General Physical Requirement	Complies (Y/N)
SASO 1025, 5.2.1	The glaze shall be thoroughly fused to the body.	
SASO 1025, 5.2.2	All exposed surfaces shall be glazed except for the following: <ul style="list-style-type: none"> – Surfaces coming into contact with walls or floors – On wash basins set away from walls: those portions of the rear aprons for supporting the appliance in kilns, the backs or over flows, and the under sides of the outlet hoses – Surfaces not visible when wash basin is installed in the normal manner 	
SASO 1025, 5.4	The colour distribution shall be homogeneous in all areas, however the colour of the edges and curves maybe lighter. <i>See note 1 on page 30</i>	
SASO 1025, 5.6.3	The surfaces of washbasins shall not show, any blemishes or defects (spots, blisters, bubbles and pin holes).	
SASO 1476, 5.2.1	Bowls of washbasins shall be of one-piece construction.	
SASO 1476, 5.2.4 (b)	The basin shall be provided with an over flow hole when the operative area is more than 300 mm ² with a vertical height of 10mm or more. The overflow hole shall be below the spillover level of the basin.	
SASO 1476, 5.2.7	Any soap sinking if provided shall be adequately drain into the bowl or into the overflow	
SASO 1476, 5.2.8	The underside of the tap platform around the tap holes shall be so constructed as to provide a flat area around the center of the hole with a maximum thickness of 20 mm and a minimum diameter of 60 mm.	
Applicable for Wash basins fitted with full pedestals:		
SASO 1476, 5.2.5 (a)	The pedestal shall be recessed at the back to take supply and waste pipes and fittings.	
Applicable for Wash basins fitted with half pedestals:		
SASO 1476, 5.2.6 (b)	Half pedestals shall be provided with means to be mounted on the wall.	

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2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
SASO 1476, 6.0	Every wash basin, pedestal and half pedestal shall be marked in a legible, readily identifiable and permanent way with the following:	
SASO 1476, 6.1	Manufacturer's name or his trademark or both. The mark shall be located so as to be visible as much as possible after the appliance is installed. In case of difficulty in finding an appropriate visible location, the marking shall be located elsewhere.	
SASO 1476, 6.4	The country of origin.	
SASO 1025, 7.2	All second grade wash basins shall be indelibly marked by the maker with two parallel lines cut on the surface of the wash basin at the location shown in figure 1. These cuts shall be filled with a bright red permanent marking, which is resistant to the action of hot water. All packages containing second-grade appliances shall be clearly identified with two red marks adjacent to appliance identification. <i>See note 2 on page 30</i>	

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XII Baths and Shower Trays (Acrylic Type):

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
EN 263, 3.0	The thickness of the cast acrylic sheet used shall not be less than 2.7 mm.	
EN 263, 6.0	The cast acrylic sheet shall be transparent, white or coloured.	
	The colour distribution shall be homogeneous in all areas.	
	The surfaces of baths/shower tray shall not show, any blemishes or defects (spots, blisters, bubbles and pin holes).	
	The bath/shower tray shall have a waste outlet hole.	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
	Every bath/shower tray shall be marked in a legible, readily identifiable and permanent way with the following:	
	Manufacturer's name or his trademark or both.	
MoCI Royal Decree No. M/5	The country of origin.	



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XIII Other products:

1. Physical Requirements

Standard Reference	General Physical Requirement	Complies (Y/N)
	Products shall be free from visible defects	
	It shall be free from visible colour spots or patches, crazing, edge cracks and blisters.	

2. Marking Requirements

Standard Reference	General Marking Requirement	Complies (Y/N)
	Marking shall be in Arabic and/or English . The marking shall be clearly discernible, legible and indelible	
MoCI Royal Decree No. M/5	Country of origin	
	Name, trade mark or identification mark of the manufacturer	
	Function or type of product	
	Methods of use & storage <i>(if applicable)</i>	
	Warnings - Cautionary phrases <i>(if applicable)</i>	
	Date of production or Batch number <i>(if applicable)</i>	
	Quantity	

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TABLE 1

Maximum allowable blemishes and defects for First-Grade Ceramic
Water Closet Pans, Bidets, Bowl Urinal and Pedestals

Location	Blemish or Defect	Maximum Permitted
General	Wavy Finish	Non on all visible surfaces
	Warpage	(a) WC pans not to exceed 6 mm (b) Other appliances not to exceed 1%, total not to exceed more than 6mm
	*Discoloration	Non on all surfaces
Flushing surface and horizontal face of rims of WC pans, bidets and urinals	Spots, blisters and pinholes	(a) White appliances: Spots not to exceed 3 and no grouping. (b) Coloured appliances: not allowed more than one blister and one pinhole
	Bubbles and Specks	(a) In one pottery area: not to exceed 2 (b) Total: not to exceed 4
	Polishing marks	(a) White appliances: not to exceed 1 (b) Coloured appliances: not allowed
Visible surface other than above	Spots, blisters and pinholes	(a) White appliances: Spots not to exceed 5 and no grouping. (b) Coloured appliances: No blisters are allowed and pinholes limited to 2
	Bubbles and Specks	(a) In one pottery area: not to exceed 3 (b) Total: not to exceed 10

Note 1: Vitreous china sanitary appliances are made in white and other colours. The shade or tint of each colour is determined by the individual manufacturer. It is recognised that differences in manufacturing conditions, base materials and lighting produce minor variations in colour which are commercially acceptable and are not a cause for rejection.

Note 2: SASO Country Offices are reminded to use the findings of previous or current Pre-shipment Testing on the inspected products, or those of the test data provided, to determine their classification.

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FIGURE 1

Location of Marking for Second Grade Sanitary Appliances

