



**Saudi Standards, Metrology and Quality Organization
SASO**

Technical Regulation for Water Rationalization Tools

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Note:

**Only the Arabic version of this Regulation is authentic in law and is
applicable where there are differences with this translation**

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Preamble

In line with the accession of the Kingdom of Saudi Arabia (KSA) to the World Trade Organization (WTO), as per the Decree No. 244 of the Council of Ministers, dated 21/09/1426 A.H., concerning the approval of documentation on the Kingdom's accession to the WTO, and the requirements by which the KSA shall adapt its relevant systems with the principles of WTO agreements, particularly, the Technical Barriers to Trade (TBT), which stipulates that no unnecessary technical requirements shall impede the flow of commodities among the member states, and that technical requirements and methods of conformity assessment shall not discriminate between products on the basis of origin, through the issuance of Technical Regulations that include the essential requirements and standardized business procedures.

In accordance with Article 3 (Clause-1), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **“SASO shall issue Saudi standards, quality systems and guidelines and conformity assessment, compatible with international standards and guidelines, that meet the requirements of the World Trade Organization (WTO) Agreement, in addition to their compliance with Islamic Sharia and serving the interests of Saudi Arabia”**;

In accordance with Article 4 (Clause-2), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **“SASO shall issue regulations for conformity assessment procedures of commodities, products, and services according to approved standards”**;

In accordance with Article 4 (Clause-14), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **“SASO shall review the laws and control regulations related to SASO's work fields, and develop them, and propose amendments thereto in line with quality and safety requirements, and refer them to competent bodies in order to review and issue them, in accordance with applicable procedures”**;

In accordance with Article 6 (Clause-1), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **“Subject to Article 4 of this Statute, SASO shall be the authority in charge of matters related to standards, conformity assessment procedures, granting the quality mark, metrology and calibration. All public and private sectors shall be adhered to the Saudi standards in all purchases”**.

Whereas the standards of the products included in a regulation shall be a basis for the conformity of such products with the essential safety requirements included in the specified regulation.

Therefore, SASO has developed this Technical Regulation.

Note: This preamble and all the annexes of this regulation shall form an integral part thereof.

Article (1) Terms and Definitions

1/1 When applying the articles of this regulation, terms and expressions hereunder – shall have the meanings indicated in front thereof, unless the context otherwise requires:

KSA: The Kingdom of Saudi Arabia.

SASO: Saudi Standards, Metrology and Quality Organization.

The Board: SASO's Board of Directors.

Regulatory Authorities: Governmental body/bodies with regulatory tasks in consonance according to their specializations, which are responsible for the implementation and enforcement of technical regulations, whether in customs, markets, or manufactories.

Notified Bodies: Conformity Assessment Bodies "Third Party", approved by SASO in accordance with the regulation of approving Conformity Assessment Bodies.

Granting Bodies: Competent authority in SASO or any conformity assessment body approved by SASO and authorized by the competent department in SASO.

Technical Regulation: A document approved by The Board that provides, the specifications of products, associated processes and production methods, including applicable administrative provisions; with which compliance is mandatory. It may include or pay attention to terms, definitions, packaging, and requirements of markings or labelling products, services, processes or production methods.

Standard: A document approved by the Board that provides, for the regular and recurring use, non-mandatory rules and instructions, and specifications of products or processes and production methods. It may include, or pay attention to terms, definitions, packaging, and requirements of markings or labelling products, services, processes or production methods.

Essential Requirements: Special requirements of the products; that may affect the safety, health, and the environment; that must be adhered to.

Market Surveillance Authorities: governmental body/ bodies responsible for carrying out market surveillance.

Market Surveillance: Activities and measures carried out by the market surveillance authorities to verify that products meet the requirements stipulated in the relevant technical regulations, and to ensure that they do not pose a risk to health, safety, environment, or any other aspect related to the protection of the public interest.

Supplier:

- A product manufacturer, in case that he is resident in the KSA, or the person identified as the manufacturer of the product, through linking the product to their name, or to a relevant commercial description, or any person who provides a product renewal.
- An agent, if the manufacturer is outside the KSA or an importer in the absence of an agent of the manufacturer.
- Any person in the supply chain, whose activities may affect the product properties.

Conformity Assessment Procedures: A document approved by the Board of Directors, which describes the procedures used directly, or indirectly for the conformity assessment.

Saudi Quality Mark: A mark granted by SASO, which declares that the establishment has an effective management system, which ensures that the products they supply are produced in accordance with the applicable regulations, granting procedures, and the relevant Saudi standards.

Placing on Market: Launching a product for the first time in the Saudi market for which the manufacturer/supplier is responsible.

Display in the Market: Any supply of the product for distribution, consumption or use in the KSA, in the course of a commercial activity, in return for payment or free of charge.

Withdrawal: Any procedure that aims to prevent a product from being placed in the market and in a supply chain.

Recall: Any procedure that aims to recall products made available for the end-user, according to the recall regulation.

Products: Sanitary products and tools that control the flow (rinse) of the water and direct it, including taps of all types and forms, and toilets that operate with the system of flow (rinse) water of all kinds, including rinsing siphons tanks, bidet; for all types mechanical, electronic or sensor-based devices designed to rationalize water consumption

Label: Water efficiency label (card) owned by SASO, includes details specified by SASO in terms of the level of water consumption of products. The Label is affixed or installed on all products prepared for import, manufacturing, or usage inside the KSA if fulfilled the requirements hereof.

Water Rationalization Certificate for the Product: A certificate issued by SASO or an authorized authority indicating that the concerned product fulfills the requirements hereof.

Label using License: A license issued by SASO (or a Notified Body appointed by SASO) for using and affixing the Label on products that fulfill the requirements hereof.

Consumer: Any person who got the good or the service in return of a certain amount or free of charge to fulfill their personal needs or the needs of others.

Registered Laboratory: A laboratory accredited, in accordance with ISO 17025, by a recognized authority in the field of water consumption rationalization. This lab is registered in SASO in order to approve the reports issued by it in the procedures of licensing the Label usage.

Test Report: A test report issued by a registered laboratory, provided that the date of issuance does not exceed one (1) year at the time of applying for the license.

1/2 Other terms and expressions specified in this regulations shall have the meanings specified in the applicable laws, regulations, and decrees of SASO.

Article (2): Scope

This Regulation shall apply to all imported or locally manufactured products available in the KSA markets as shown in Annex (1) hereof.

In accordance with relevant definitions and terms provided in Article (1) and in accordance with relevant standards provided in Annex (4).

Article (3): Objectives

This regulation aims for water rationalization of products included in the scope of this regulation according to water consumption rate at Annex (1), in order to preserve resources and the national economy and its gains in addition to reducing costs for the consumer.

Fulfillment of the requirements of this regulation does not preclude compliance with Saudi technical regulations related to safety. Suppliers shall comply with such regulations to ensure the safety of these products to preserve the environment and the health and safety of the consumer, and to facilitate market survey procedures.

Article (4): Requirements for obtaining Water Rationalization Certificate for Type

SASO grants the certificate of water rationalization for types, when the following conditions are met:

- 4/1 Supplier shall be officially registered at the official competent authority and having a commercial registration number.
- 4/2 Product shall fulfill all conformity assessment procedures that prove meeting the requirements of the technical regulations regarding the product safety.
- 4/3 Product included in the scope of this regulation shall fulfil all of its requirements and of the requirements of the relevant standards.
- 4/4 Manufacturer shall have an effective quality management system; ISO 9001 certification fulfills this requirement.
- 4/5 Supplier shall provide a Conformity Declaration provided in Annex (5) and provide a test report according to the requirement of this regulation and relevant standards.
- 4/6 Supplier shall cooperate with the Regulatory Authorities and Market Surveillance Authorities, by providing the technical file documents, test reports, and any other documented information proving the fulfillment of the requirements of the Water Rationalization Certificate, upon request.
- 4/7 Label shall be applied on the product and/or its containers by the method determined by SASO in terms of type and degree, according to Clause No. (6/3) of Article (6) of this regulation and relevant standards.
- 4/8 All information used in the Logo shall be correct and proven.

Article (5): Steps for Obtaining the Water Rationalization Certificate for type

5/1 Application

To obtain A Type's Water Rationalization Certificate, the supplier shall follow the following steps:

- 5/1/1 Apply to SASO for each of the products that require a water rationalization certificate.
- 5/1/2 Filling the specified forms in the procedure for granting a water rationalization certificate for the type, prepared and approved by SASO; for the concerned product, and providing SASO with any additional documentation upon request.
- 5/1/3 Attach the technical file including test reports that prove that the product conforms to this regulation and the relevant standards from a registered laboratory. A valid copy of the certificate of accreditation shall be attached.
- 5/1/4 Attach conformity assessment documents proving that the product meets the Saudi technical regulations of the relevant safety requirements.
- 5/1/5 When applying for a water rationalization certificate for the type, the supplier shall provide SASO with any data relating to the product specified in the application, and facilitates the task of obtaining a sample of the type when needed, for the purpose of verifying the extent to which it conforms to the standards of water rationalization related to the product, at his expense.
- 5/1/6 The supplier shall declare that all data/information provided to SASO is correct and under his responsibility.
- 5/1/7 The supplier shall pay SASO the costs of the process of granting water rationalization certification.

5/2 Granting a Water Rationalization Certificate for Type

SASO shall perform the following procedures to grant the Water Rationalization Certificate for the Type:

- 5/2/1 SASO shall examine the documents in accordance with the licensing procedure approved by SASO for each product, to verify that the application meets all the requirements for obtaining a Water Rationalization Certificate.
- 5/2/2 SASO shall verify the extent to which the product meets the requirements of this regulation, in accordance with the conformity assessment form (1a) "Type Approval" shown in Annex (4), in addition to verifying that the product meets the basic requirements in accordance with the relevant technical regulations.
- 5/2/3 SASO shall issue the certificate of water rationalization for the type after the product has met all the requirements specified herein.
- 5/2/4 Inform the supplier in writing if the application is rejected, with the reasons of rejection.
- 5/2/5 SASO shall issue the certificate of water rationalization after the supplier meets all requirements and completes all the required corrections stated in the relevant licensing procedure, within the specified period.

- 5/2/6 SASO is entitled, when necessary, to withdraw samples from random consignments of imported or locally manufactured products and test them in a registered laboratory. The supplier shall bear the costs of withdrawing, testing, and associated matters.
- 5/2/7 The Water Rationalization Certificate is valid for one renewable year, provided that the supplier submits the renewal request at least one month prior to the expiration date.

Article (6): Label Usage Licensing

6/1 Requirements for Label Usage Licensing

SASO shall grant permission to the supplier to use the water rationalization label, when the following conditions are met:

- 6/1/1 The product shall have a Water Rationalization Certificate for the Type.
- 6/1/2 Supplier shall submit a separate application to SASO for each type of products intended to be licensed for label usage.
- 6/1/3 Filling the required forms and providing SASO with any additional documents upon request.
- 6/1/4 Supplier shall fulfil the conditions of affixing the label on the products in the correct manner specified in this regulation and the relevant standards.
- 6/1/5 Supplier shall pay SASO the costs of label usage licensing.

6/2 Granting the Label Usage License

- 6/2/1 SASO shall verify that the product has the Water Rationalization Certificate for the type, and the validity of all documents and information provided by the supplier.
- 6/2/2 SASO shall determine the costs of label usage licensing preferentially, where the license to use the label is free of charge for the most water-efficient product type and the cost escalates with the reducing the level of water rationalization for each model of the product in question.
- 6/2/3 SASO shall grant the supplier the label usage license after fulfilling the licensing requirements.
- 6/2/4 The validity of the license is one year, renewable, provided that the supplier submits the renewal request at least one month prior to the expiration date.

6/3 Requirements of Fixing the Label

- 6/3/1 The label shall be affixed only on licensed products or their packaging, on a clear place in a way that is difficult to be removed, in accordance with the requirements specified in this regulation and the relevant standards.

- 6/3/2 Label shall be made of a material to ensure that the label remains on the product or its packaging, from the stage of manufacture until it reaches the consumer, unless it is deliberately removed or damaged.
- 6/3/3 To be fully identical to the design set out in Annex (3) attached to this regulation.
- 6/3/4 Label shall be affixed on a clear place during packaging, as stipulated in Annex (3) attached to this regulation.
- 6/3/5 Label shall be affixed on the product/packaging as specified by SASO in terms of type and grade, in accordance with Annex (3) of this regulation.
- 6/3/6 The affixed Label on the product shall be identical to the label approved by SASO and in the manner specified in accordance with this regulation.
- 6/3/7 Supplier shall be allowed to announce the license of label usage in their commercial transactions to prove that the products are licensed and subject to follow-up by SASO.
- 6/3/8 License and label shall only be used for licensed products. The supplier is prohibited from using the label misleadingly or wrongly or in any other way deemed misleading by SASO and the Regulatory Authorities.
- 6/3/9 Packaging materials of products shall carry the Label.

Article (7): Metrological Requirements

International System of Units (SI Units), its multiples, or its parts shall be applied during design, manufacturing or distribution.

Article (8): Responsibilities of Regulatory Authorities (Ports - Factories)

Regulatory Authorities, as a part of their competences, shall carry out the following:

- 8/1 Verify the procedures for installing the label on the products subject to this regulation and verify the validity of the data.
- 8/2 To withdraw samples of products subject to this regulation - randomly - and send them to the competent laboratories to ensure the extent of compliance with the requirements of this regulation.
- 8/3 Regulators are entitled to charge suppliers (manufacturers and importers) for testing costs and associated fees.
- 8/4 In case of a non-conformity of the product, Regulatory Authorities shall withdraw the concerned products from warehouses, and take the necessary legal actions.

Article (9): Responsibilities of Market Surveillance Authorities

Market Surveillance Authorities, as a part of their competences, shall carry out the following:

- 9/1 Enforce the market surveillance procedures to the products in the markets and the products stored in the traders and manufacturers warehouses, in order to check the validity of the label installation procedures on products subject to this regulation and the validity of the data.
- 9/2 In case of non-conformity of – displayed or stored – products with the requirements of this Technical Regulation, Market Surveillance Authorities shall take all administrative actions including withdrawal and recall of such products. Procedures and penalties – stipulated in Article (10) – shall be applied after taking the necessary actions.

Article (10): Violations and Penalties

- 10/1 It is prohibited to manufacture, import, place in the market, display in a showroom or even advertise the products non-conforming with the requirements of the terms of this regulation.
- 10/2 Non-fulfillment of the product for the requirements of this regulation is considered a sufficient reason to judge the product as non-conforming by the market surveillance and regulatory authorities, in the following cases:
 - A) Incorrect affixing or non-affixing of the label.
 - B) Incorrect data.
 - C) Using the label (affixing) on any of the product or type without obtaining a license from SASO.
 - D) Continuing of using the label on any of the product or type after issuing a decision to cancel the license or license expiration without renewal.
 - E) Continuing to publish and advertise the use of the label in any media for products in which there license has been cancel without renewal.
 - F) Removing affixed label on products or mishandle it or hiding it from the consumer during sales display.
- 10/3 In case of non-conformity to the provisions of this Regulation, the market surveillance authorities - depending on the situation – shall take all the necessary measures to remove the violations and their effects on the market. In this concern the market surveillance authorities may:
 - A) Forcing the violating, non-conforming party; responsible for producing, placing in the market, or displaying in a showroom, to withdraw the product from stores or from the market with the aim of correction or –if possible- re-exporting or destruction (according to the nature of the

product), during the period determined by the market surveillance authorities.

- B) Withdrawal, seizure or destruction of products, or any other action to recall from the markets. Market surveillance authorities -depending on the situation – may announce of the product recall from the market, and the non-confirming party shall pay for all the costs.

- 10/4 In case of non-conformity of the product, the Authority shall take the necessary measures concerning products non-conforming with the requirements of this regulation, including the cancellation of the license to use the label and take necessary measures with the registered laboratory if necessary.
- 10/5 Without prejudice to any more severe penalty provided by the regulations in force, the supplier violating the provisions of the regulations shall be punished by penalties stipulated in the valid Commercial Fraud system, or any other system that replaces it.

Article (11): Financial Costs

(All costs shall be in Saudi Riyal(SR))

No.	Item	Cost
1	Application Costs	500
2	Initial Technical Documentation Study Costs	2500/ Business Day
3	Costs of granting water efficiency certificate per type	500/ Type
4	Costs of licensing to use the label	<ol style="list-style-type: none"> 1. The cost per label is calculated for each type of the product. 2. The cost of issuing for the high efficient type (a) of the product is free of charge. 3. The cost of issuing for the lower efficient type (b) of the product is 500 SR.

Article (12): General Provisions

- 12/1 The supplier bears full legal responsibility for the implementation of the requirements of this regulation, penalties provided by the commercial fraud system or any related systems, shall be applied to him, if proven to violate any of the articles of this regulation.
- 12/2 This Regulation does not waive the supplier from compliance with all other laws or regulations in force in the Kingdom regarding the handling, transportation

and storage of the product, as well as other laws and regulations related to the environment, security and safety.

- 12/3 All suppliers of the tools and devices of water nationalization subject to the provisions of this Regulation, shall provide the inspectors of the regulatory and market surveillance authorities with all facilities and information they require to carry out their assigned tasks.
- 12/4 For any arising situation that cannot be corrected under the provisions of this Regulation or any dispute regarding the application of this Regulation, the matter shall be referred to the competent committee in SASO to issue the appropriate decision on this situation or dispute so as to achieve the public interest.
- 12/5 The supplier may submit a new application after correcting the reasons for rejection, taking the necessary corrective actions and paying any additional costs determined by SASO.
- 12/6 SASO shall examine the received complaints concerning the products with Label usage license, verify the validity of these complaints and take the legal actions in case a violation is proved.
- 12/7 SASO is entitled to cancel the license if the supplier violates the terms of this Regulation, and take the legal actions to ensure the preservation of SASO rights.
- 12/8 For any modifications to the product during the licensing period (except for modification in shape such as the color), the license shall be deemed canceled for this product and a new application shall be submitted.
- 12/9 SASO is the only authority entitled to interpret the articles of this Regulation, and all beneficiaries of the application of this Regulation shall be committed to interpretations issued by SASO.

Article (13): Transitional Provisions

- 13/1 The supplier shall correct its conditions as per the provisions of this Regulation, within a period of NO more than six (6) months from the date of enforcement.
- 13/2 With consideration of the provisions of Clause (1) of this Article, the supplier is allowed to trade the products that do not fulfill the requirements of this Regulation for a maximum of one year from the date of enforcement.
- 13/3 This Regulation – once adopted –shall supersede all contradicting regulations in the field of water rationalization before they are placed and after they are displayed in the markets.

Article (14): Publication

This Regulation shall be published in the Official Gazette.

Annex No. (1)**Requirements for Water Consumption Rate****A) List of the Maximum Flow Rate of Water Rationalization Tools:**

Product	Type		HS Code	Maximum Flow Rate	Minimum Flow Rate
Faucet (Taps)	Mixers	Bathroom basin faucets	848180900002	1.9	-
		Bathroom / Kitchen basin	848180900002	5.7	3.0
		Shower taps and mixers	732490000001	9.5	1.9
		Hand spray / Spray mixers	848180900001	8.0	5.7
Toilets with dual / single flush system	Single flush	S trap	691010000008	3.5	-
		P trap		4.5	-
	Dual flush	S trap	691010000005	(Dual flush) Max of the average is 3.5 as calculated by $(f+(5x1))/6$ (S trap) Max. of the average is 4.5 as calculated by $(f+5x1))/6$ (P trap) full flush value shall not exceed	-
		P trap			-

			4.8 liters	
Eastern toilet flush boxes	392290000002	6.0	-	
Water flush regulators	848190000001	6.0	-	
Urinal flush system	691010000007	1.0	-	

*Maximum flow rate, Q_{max} (l/min)

- The maximum flow rate is the maximum liquid flow specified in the product, measured in liters per minute (liter / minute).
- The products and customs codes on the Saber electronic platform are the updated and approved version.

B) Nominal Flow (Q_{nom}) for Water Rationalization Tools

Product Type	Nominal Flow Rate, Q_{nom} (l/min)*		Water Efficiency Rating
Faucets / Bathroom basin, mixers (public)	$1.9 \geq Q_{nom} > 1.7$		B
	$1.7 \geq Q_{nom}$		A
Faucets /Bathroom (private) / Kitchen	$5.7 \geq Q_{nom} > 4.5$		B
	$4.5 \geq Q_{nom} \geq 3.0$		A
Faucets/ Shower taps and mixers	$9.5 \geq Q_{nom} > 7.6$		B
	$7.6 \geq Q_{nom} \geq 1.9$		A
Hand spray / Spray mixers	$8.0 \geq Q_{nom} > 7$		B
	$7 \geq Q_{nom} \geq 5.7$		A
Water closet / toilet flush system Single/dual	(single flush)	$3.5 > Q_{nom} > 3$ (S trap)	B
		$4.5 > Q_{nom} > 3$ (P trap)	
	$3.0 \geq Q$ (S & P trap)		A
(dual flush)	$3.5 > Q_{nom} > 3$ as calculated by (f+(5x1))/6 (S trap)		B
	$4.5 > Q_{nom} > 3$		

		calculated by $(f+5x1))/6$ (P trap) full flush value shall not exceed 4.8 liters	
		$3.0 \geq Q_{nom}$ (S& P trap)	A
Eastern toilet flush boxes		$6 \geq Q_{nom} > 5$	B
		$5 \geq Q_{nom}$	A
Water flush regulators		$6 \geq Q_{nom} > 2.7$	B
		$2.7 \geq Q_{nom}$	A
Urinal flush system		1.0	B
		5.0 or waterless	A

- 1) Nominal flow rate is the Maximum flow rate of the specified liquid, measured in liters per minute Q_{max} (l/min).
- 2) The testing shall be conducted at a pressure of a 1.5, 3.0 and 4.5 bar (± 0.2 bar) for products claimed to be suitable for high-pressure installations (typically 1.0 to 5.0 bar) or at a pressure of 0.2, 0.3 and 0.5 bar (± 0.02 bar).
- 3) The mean value of 3 measurements shall not exceed the maximum flow rate values indicate in table(A)

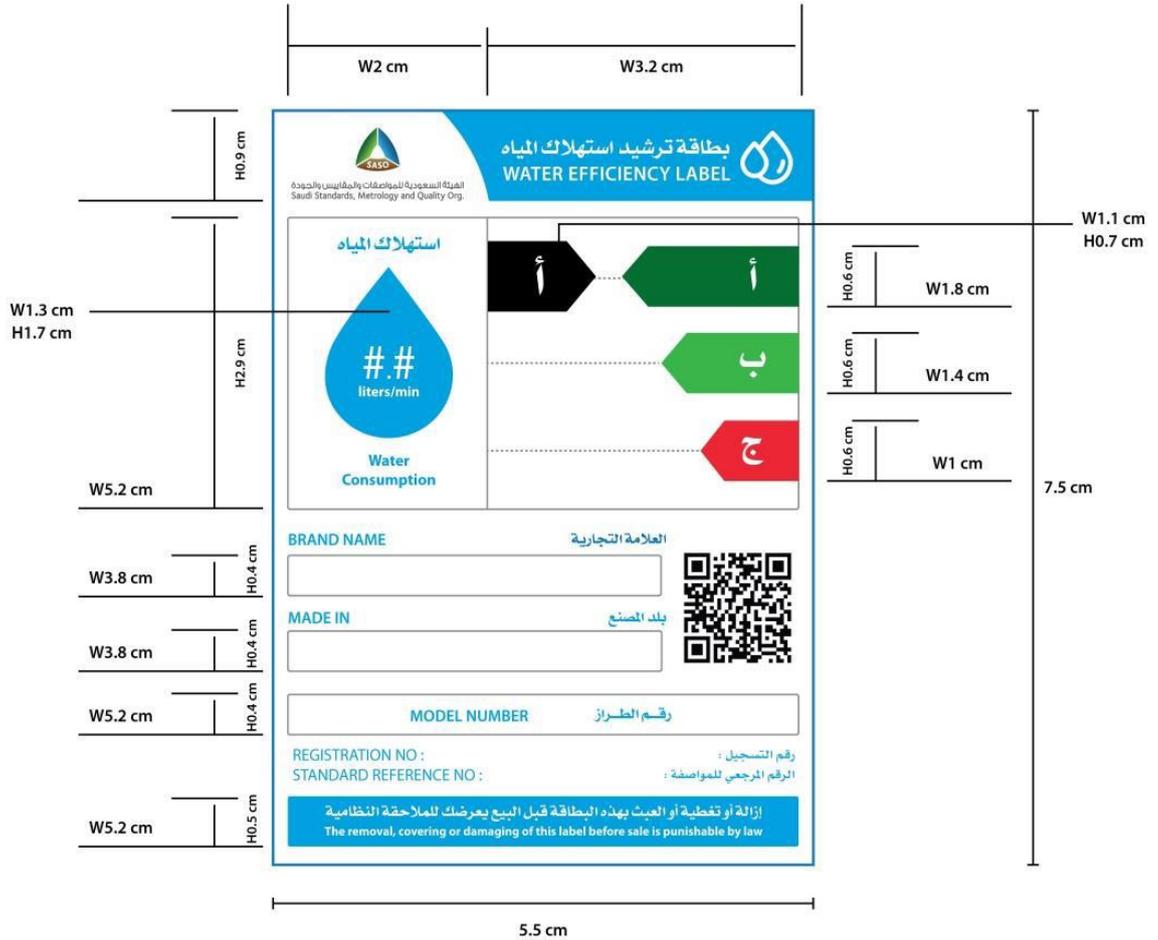
Annex No. (2)**Water Rationalization Tools Products and Relevant Standards**

No.	Standard Title		Saudi Standard
1	General – water closets	Ceramic Sanitary ware – western toilets	SASO 1473
2	Hydraulic performance of water closets	Ceramic Sanitary ware – western toilets	SASO 1473
3	Water closet tanks	Sanitary ware – Water closet tanks Ceramic Sanitary ware - compression tanks	SASO 1257 SASO 1477
4	Flush rate regulators	Ceramic sanitary General specifications for flush rate regulators	SASO EN 246
5	Electro-Hydraulic water closets	Ceramic sanitary appliances - western water closets	SASO 1473
6	Fixtures materials	Gas chromatograph /mass spectrometer/data system for analysis of organic pollutants in water	SASO 2566
7	Drinking water systems components	Drinking water systems components	NSF 61 (Reference standard at Saudi Building Code and not adopted in Saudi)

Annex No. (3)

Water Efficiency Label Design and Affixing on the Product Packs

(a) Design of Water Efficiency Label

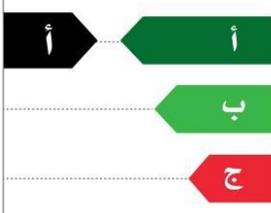



بطاقة ترشييد استهلاك المياه
WATER EFFICIENCY LABEL

الهيئة السعودية للمواصفات والمقاييس والجودة
 Saudi Standards, Metrology and Quality Org.

استهلاك المياه

Water Consumption



BRAND NAME العلامة التجارية

MADE IN بلد المنتج

MODEL NUMBER رقم الطراز

REGISTRATION NO : رقم التسجيل :
STANDARD REFERENCE NO : الرقم المرجعي للمواصفة :

إزالة أو تغطية أو العبث بهذه البطاقة قبل البيع يعرضك للملاحقة النظامية
 The removal, covering or damaging of this label before sale is punishable by law

(b) Affixing of Water Efficiency Label on the Product Packs



Annex No.(4)**Conformity Assessment Form (Type 1a) as per ISO/IEC 17067****Type Approval****1/1 Type Approval**

Type approval is defined as one of the conformity assessment procedures, under which a notified body reviews and verifies the technical design of the product and declares that the technical design meets the requirements of the relevant Saudi Technical Regulations.

Type approval may be conducted by one of the two following methods:

- A) Examination of a representative sample of the entire product, that represent the expected production (production model).
- B) Assessment of the conformity of the technical design of the product by auditing the relevant technical documentation and manuals (design model), and examining of a representative sample of the expected production for one part or more involving hazardous parts of the product (a combination of the production model and the design model).

1/2 Procedures of Type Approval**1/1/2 Submission of a Type Approval application to a Notified Body**

The manufacturer shall submit an application for type approval to a notified body selected by the manufacturer, such request shall include:

- A) Name and address of the manufacturer;
- B) A written declaration not to submit the same application to any other Notified Body.
- C) Technical documents facilitating the assessment of the conformity of the product to the requirements of Saudi technical regulations. Such documentation shall include adequate analysis and evaluation of risks.
- D) The Technical documents shall identify the requirements that apply to the product. Including, as required by the assessment, the design of the product, manufacturing and operation (use) of the product.
- E) The Technical documents shall include – at least - the following:
 - 1) A general description of the product.
 - 2) Design and manufacturing drawings, horizontal projections (diagrams), components, units, subdivisions, etc.
 - 3) Description and explanations, referred to therein, necessary to understand the drawings, diagrams, and the operation (use) of the product.
 - 4) A list of the Saudi standards or any other relevant technical specifications adopted by SASO, whether fully or partially applied, and a description of the adopted solutions to meet the essential requirements of the Saudi technical regulations in case of non-application of the aforementioned standards. In case of partial application of Saudi standards, the technical documentation shall clarify the applied clauses.
 - 5) Report results (graph calculations) of the design, operation control, conducted tests, etc.
 - 6) Test reports.
 - 7) Representative samples of the planned production. The notified body may request additional samples, if necessary.

- 8) Evidences (proofs) supporting the appropriateness of the technical solutions applied in the design. Such evidence shall refer to all documents, particularly in case of non-application of the Saudi standards and/or the aforementioned appropriate technical specification. Supporting evidences – as applicable - shall include results of test conducted in the suitable laboratory in the manufacturer or any other laboratory under the responsibility of manufacturer.

2/1/2 Tasks of the Notified Body

A/ With regard to the product, the notified body shall:

Study the technical documentation and supporting evidence for the purpose of assessment of the technical design of the product.

B/ With regard to the samples, the notified body shall:

- 1) Ensure that the manufacturing of samples is conformant to the technical documentation, in addition to identifying the elements designed in accordance with the Saudi standards, and the elements designed in accordance with other standards.
- 2) Carry out appropriate examinations and tests, or outsource them in order to verify that the technical solutions adopted by the manufacturer meet the essential requirements specified in the standards, in case of non-application of the relevant standards.
- 3) Carry out appropriate tests or outsource them, in order to verify that – in case of non-application of Saudi standards and/or other appropriate standards - the technical solutions adopted by the manufacturer meet the essential requirements of the Saudi technical regulations.
- 4) Be in agreement with the manufacturer on the venue where tests shall be conducted.

C/ As for decisions made by the Notified Body:

- 1) The notified body shall issue an assessment report of the procedures carried out and their outputs. The notified body shall not publish, fully or partially, the report without the approval of the manufacturer.
- 2) In case the type meets the requirements of the Saudi technical regulations relevant to the concerned product, the Notified Body shall issue a Type Approval Certificate for the manufacturer. Such certificate shall include the name and address of the manufacturer, test results, the validity conditions thereof, if any, and all information required for identification of the certified type. The certificate may also include attachments.
- 3) The certificate, along with its attachments, shall include all necessary information required to assess the conformity of manufactured products, according to the tested type and for monitoring during operation.
- 4) In case the type is non-conforming to the requirements of the Saudi Technical Regulations applicable to the product, the Notified Body shall not issue the Type Approval Certificate and shall notify the applicant of its decision, stating detailed justifications for such decision.
- 5) The Notified Body shall follow all recognized technological developments. Whenever such developments indicate that the possibility that the certified type may no longer comply with the requirements of the Saudi Technical Regulations, the Notified Body shall determine to what extent further tests are required, and it shall inform the manufacturer accordingly.
- 6) The manufacturer shall inform the Notified Body, holding the technical documentation related to the Type Approval Certificate, of all modifications of the certified type, which may affect the conformity of the product to the requirements of the Saudi Technical Regulations, or to

the terms of validity of the Type Approval Certificate. As such modifications require additional approval other than the primary Type Approval Certificate.

- 7) Notified bodies shall inform SASO of the Type Approval Certificates and any additions issued or withdrawn, and shall periodically, or upon request, provide a list of the Type Approval Certificates and any additions that has been rejected, suspended, or restricted in any way.
- 8) Each Notified Body shall inform the other accredited Notified Bodies of the Type Approval Certificates and any additions that has been rejected, suspended, or restricted in any way. In addition, they shall be informed, upon request, about Type Approval Certificates or any additions released.
- 9) Upon request, SASO and other Notified Bodies can obtain copies of the Type Approval Certificates and/or additions thereto. SASO may obtain copies of technical documentation and testing results carried out by the Notified Body, upon request. The Notified Body shall keep a copy of the Type Approval Certificate, its annexes and additions, in addition to the technical documentation (including documents attached by the manufacturer) up until the certificate's expiration date.
- 10) The manufacturer shall keep a copy of the Type Approval Certificate, its annexes and additions thereto, in addition to the technical documentation. Furthermore, the manufacturer shall make all documents available to Regulatory Authorities and Market Surveillance Authorities for ten (10) years after placement of the product in the market.
- 11) The supplier may submit the request mentioned in Clause (1/1/2), and carry out the aforementioned tasks on behalf of the manufacturer, on the condition of the manufacturer's consent.

Annex No. (5)

Supplier Conformity Declaration Form

This form shall be filled in on the company's letterhead papers

1) Supplier Details:

Name

Address:

Contact Person:

Email: -----

Tel. No.: -----

Fax No. -----

2) Product Details

Trademark:

Model:

Description:

Water Consumption Rate:

Reference Standards / Technical Specifications:

We, hereby, declare that the above-mentioned product is conforming with the Saudi Technical Regulation of (), and the Saudi Standards attached thereto.

The competent person:

Company Name:

Signature:

Date: