

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

**Technical Regulation for Building Materials – Part 3:  
Hydraulic Connections and Related Products**

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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.

**The Board:** SASO's Board of Directors

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

**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.

**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.

**Product:** Hydraulic connections and related products such as cement products, construction lime, gypsum, ready-mix concrete and its derivatives, related materials such as mortar, plastering, tiles, concrete bricks and cellular bricks, as well as fiber-fortified gypsum and cement panels, and cement mixes, dry packed premixed mortar, quicklime, hydrated lime, aggregates, concrete chemical additives, precast construction concrete products, cement plasters, precast prestressed construction concrete products, designed for use in constructions and buildings.

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

**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.

**Hazard(s):** A potential source of harm.

**Risk (s):** A potential risk causing damage; associated with the severity of damage.

**Supplier:**

- A product manufacturer, in case the manufacturer is inside KSA, or the person identified as the manufacturer of the product, through linking the product to his name, or to a relevant commercial description, or any person who provides a product replacement.
- An agent, when the manufacturer is outside 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 characteristics.

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

**Notified Bodies:** Conformity Assessment Bodies “Third Party”, approved by SASO in accordance with the Regulation of Conformity Assessment Bodies Acceptance.

**Certificate of Conformity:** A certificate issued by SASO or a notified body, which ensures the conformity of a product, or any batch thereof, with the requirements of relevant standards.

**Supplier Declaration of Conformity:** A declaration by the supplier by which it declares that a product conforms to the requirements herein and applicable legislations, without the mandatory intervention of a third party neither in the design stage, nor in the production stage of the manufacturing process. A declaration may depend on testing the product in accordance with the relevant legislation.

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

**Making Available on the Market:** Any supply of the product for distribution, consumption or use in 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.



**Building Materials:** Any product or equipment (kit) manufactured and placed on the market for the purpose of sustainable integration into construction work or parts thereof, the performance has an impact on the construction and finishing work with respect to the essential requirements of health, safety and environment.

**Kit:** Construction materials produced by the manufacturer and placed on the market in the form of a set of – at least – two separate parts, where their installation requires the parts to be combined.

**Construction:** Residential and service buildings, and various civil engineering constructions such as bridges, tunnels, airports, ports, drinking water-supply networks, water pumping stations, sanitation systems networks, water purification and treatment plants, dams, and irrigation projects.

**Essential Requirements:** Requirements for products used in construction (building) works, that may affect safety, health, environment, and other requirements imposed by KSA, which must be adhered to, and are determined by this regulation.

**Main Characteristics:** Main technical properties (indicated in the relevant standards) of building materials related to the main requirements of constructions.

**Aggregates:** Granular materials used in construction, which can be natural, manufactured or recycled, and is the technical name for rock fragments.

**Hemihydrate Gypsum (Calcium Sulfate Hemihydrate –  $CaSO_4 \cdot \frac{1}{2}H_2O$ )**

**CaSO<sub>4</sub>.1/2H<sub>2</sub>O):** The material resulting from the process of calcification of gypsum ore, mainly composed of (CaSO<sub>4</sub>·2H<sub>2</sub>O) calcium sulfate dihydrate at a temperature (120-160°C) to remove a certain amount of crystallization water in order for the calcium sulfate to be united with a half molecule of water, and its final composition (CaSO<sub>4</sub>· 1/2H<sub>2</sub>O) known as Paris Gypsum.

**Ready-mix Concrete:** A product made using a cement medium that results from the interaction of hydraulic cement with water when mixed with aggregates, ready (before hardening) and transported to casting sites.

1/2 Terms and expressions specified herein shall have the meanings specified in the applicable laws, regulations, and decrees of SASO.

## Article (2) Scope

This regulation shall apply to the sector of hydraulic connections and related products, such as cement products, construction lime, gypsum, ready-mix concrete and its derivatives, related materials such as mortar and plastering, tiles, cement bricks and cellular bricks, fiber-fortified gypsum and cement panels, quicklime, hydrated lime, aggregates, concrete chemical additives, precast construction concrete

products, cement plasters, designed for use in constructions and buildings; excluding hardened reinforced concrete installed in buildings.

### **Article (3) Objectives**

This regulation aims to lay out the essential requirements of the products included in the scope of this regulation, and to identify the conformity assessment procedures with which suppliers shall comply, in order to ensure that these products meet the main requirements aimed at preserving the environment, consumer health and safety and facilitating market survey procedures.

### **Article (4) Obligations of Supplier**

The supplier shall adhere to the following requirements:

#### **4/1 General Basic Requirements of Products used in Construction (Buildings) Works**

The product subject to this regulation, designed for construction works as a whole, or their separate parts, shall be appropriate for the purpose for which they were designed, taking into consideration, in particular, the health and safety of product users and construction users, at all stages of construction works, including routine maintenance, so that the product meets the technical requirements set out in the Saudi standards mentioned in Annex (1), to ensure that constructions meet the main requirements below.

Note: Obligations of Supplier stipulated herein do not include the requirements for planning, design, execution and supervision of construction works; the obligations of supplier are limited to building materials products included in the scope of this regulation.

##### **4/1/1 Mechanical Resistance and Stability**

A product – used in design and building of constructions – shall be designed and manufactured to withstand all loads for which they were designed during construction and usage periods, in order to avoid the following risks:

- A) Total or partial collapse of the constructions.
- B) Occurrence of significant distortions (deviations) beyond the acceptable limits.
- C) Damage to other parts of the structure, fixtures or equipment, as a result of large distortions (deviations) in the supporting structural elements.
- D) Damage resulted from occasional accidents, which are severe compared other causes.

##### **4/1/2 Safety in case of Fires**

A product – used in design and building of constructions - shall be designed and manufactured, whether separately or integrated with other building materials within the constructions, to ensure the following - in case of fire:

- A) Endurance of structural elements supporting constructions, during the specified period of time.
- B) Reducing the spread of fire and smoke within constructions.
- C) Reducing fire spread to adjacent constructions.
- D) Enabling construction residents to leave safely or providing them with aids.
- E) Taking into consideration the safety of rescue teams.

#### **4/1/3 Sustainable Use of Natural Resources**

A product – used in design and building of constructions - shall be designed and manufactured in such a way to achieve the sustainable use of natural resources, in order to guarantee the following in particular:

- A) Reuse or recycling of such materials and parts after demolition.
- B) Sustainability of constructions.
- C) Use of environment-friendly primary and secondary raw materials.

#### **4/1/4 Health, Safety, and Environment**

A product – used in design and building of constructions - shall be designed and manufactured in a way not to pose a risk to health and safety of constructions workers, residents, or vicinity. The product shall not have a noticeable impact on environment or climate throughout the life cycle of the construction, whether during construction, use, or demolition. Furthermore, the product shall not cause, directly or indirectly, any of the following risks:

- A) Emissions of hazardous substances, volatile organic compounds (VOC), greenhouse gases or harmful particles in air, whether inside or outside the building.
- B) Hazardous radiation emissions.
- C) Water or soil pollution or poisoning.
- D) Poor drainage of wastewater and smoke.
- E) Presence of moisture in any part of the construction or on its surfaces, or absorption, at any proportions that threaten the sustainability of the safety of the product.

#### **4/1/5 Usage Safety**

The product shall be designed and manufactured to ensure that the design and building of the construction - in which the product is used - shall not represent any unacceptable risk of accidents during service or operation, such as slipping, falling, collision, burns or death, resulting from electric shock, or injury as a result of an explosion, taking into consideration that it is usable by persons with special needs.

#### **4/1/6 Noise Prevention**

The product - used in design and building of constructions - shall be designed and manufactured in such a way that the level of noise felt by the residents or neighbors is reasonable enough to not harm their health, and allows them to sleep, rest, and work in appropriate circumstances.

#### **4/1/7 Energy Rationalization and Thermal Insulation**

The product shall be designed and manufactured in such a way as to ensure that the design and execution of construction works - including heating, cooling and ventilation systems and equipment - achieve acceptable levels of energy rationalization necessary for use, taking into consideration the climatic conditions of the site, and the comfort of the occupants of the building. The product shall ensure the efficiency of constructions in terms of energy consumption during use, construction works, and demolition or dismantling works.

#### **4/2 Technical Requirements**

To meet the requirements of this regulation, the supplier shall fulfill the main characteristics of the products included in the scope of this regulation, which are used in constructions and buildings, as follows:

- A) Product fulfillment of the technical requirements set out in the standards listed in Annex (1) of this regulation, whether separately or integrated with other building materials within the constructions, as the conformity of the product included in this regulation to the related standards is deemed as sufficient evidence that this product meets its main requirements, set out herein.
- B) Provide an effective environmental management system at the plant (a plant certified with the Environmental Management System according to ISO 14001 shall be considered as have met the requirements of this clause).

#### **4/3 Metrological Requirements**

International system units (SI Units), their multipliers, or parts shall be used during design, manufacturing, or trading.

#### **4/4 Packaging Requirements**

- 4/4/1 Ensuring that the packaging of the products covered by this Technical Regulation is according to the packaging requirements stipulated in the relevant standards.
- 4/4/2 Ensuring that the product packaging materials are free of Lead or heavy metals.
- 4/4/3 Ensuring that the containers or plastic packaging materials of the product are labelled with decomposable plastic card if the materials are included in the scope of Degradable Plastic Products regulation, or recycling symbol in case of using recyclable plastic packages.

### **Article (5) Labeling**

Labels of the product; intended to be placed and made available on market for the use in constructions and buildings, shall be as follows:

- 5/1 Name and commercial register (record) of the supplier shall be written.
- 5/2 Labels on products shall be in accordance with the technical requirements of this regulation and the relevant standards set out in Annex (1) of this regulation.

- 5/3 Data shall be written in Arabic or in both Arabic and English.
- 5/4 All information used in labels shall be valid, proven, and verifiable.
- 5/5 Country of origin.
- 5/6 Storage requirements.
- 5/7 Product period of validity and its batch number - if required.
- 5/8 Images and phrases used on the product packaging shall not violate the public law, morals, and the Islamic values prevailing in KSA.

## **Article (6) Conformity Assessment Procedures**

- 6/1 Only the requirements of conformity assessment procedures set out in this technical regulation shall be adhered to. Any other requirements concerning this matter in any standard shall not be taken into consideration.
- 6/2 The supplier – responsible for placement of cement and ready-mix concrete on the market – shall obtain the Saudi quality mark or its equivalent.
- 6/3 The supplier – responsible for placement of the rest of the products on the market – shall obtain a Certificate of Conformity issued by a Notified Body approved by SASO, in accordance with the conformity assessment form (Type 3), contained in the standard ISO/IEC 17067, as described in Annex (2).
- 6/4 Notified Bodies shall implement the conformity assessment procedures according to the specified model, in order to ensure fulfillment of the requirements of the Technical Regulation and relevant Saudi standards set out in Annex (1).
- 6/5 The product shall be accompanied by a technical file, which includes the following:
  - A) Supplier (manufacturer/importer) Declaration of Conformity in accordance with the attached form in Annex (3).
  - B) Risk assessment document.
  - C) Country of origin.
- 6/6 The supplier shall cooperate with the Regulatory Authorities and Market Surveillance Authorities by providing the technical file, Certificates of Conformity, and any other documents proving the conformity of the product with the requirements of this Technical Regulation, when required.
- 6/7 Products, subject to this regulation, that bear the Saudi Quality Mark, or its equivalent, shall be deemed to be complying with the requirements set forth in this Technical Regulation.

## **Article (7) Responsibilities of Regulatory Authorities**

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

- 7/1 Regulatory Authorities shall verify that hydraulic connection products and their derivatives, intended for construction and building works; and subject to this regulation, fulfill the requirements of the specified conformity assessment

procedures and technical documents attached with consignments in ports and plants.

- 7/2 Regulatory Authorities have the right to periodically and randomly collect samples of products from the point of production, and to refer such samples to the competent laboratories to ascertain the extent of the conformity with the requirements set out in this Technical Regulation.
- 7/3 Regulatory Authorities have the right to charge the suppliers (manufacturers/importers) with the costs of tests and associated fees.
- 7/4 In case of non-conformity of the product, Regulatory Authorities shall withdraw the concerned products from warehouses, and take the necessary legal actions.

## **Article (8) Responsibilities of Market Surveillance Authorities**

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

- 8/1 Enforce market surveillance procedures on products made available on markets and products stored in warehouses of traders and manufacturers, in order to check the product's safety and the extent of fulfillment of the requirements stipulated in this Technical Regulation and relevant standards.
- 8/2 Sample the product, whether from the market or warehouses of suppliers (manufacturers and importers), in order to conduct the necessary tests and to verify the conformity of such products with the requirements set out in this Technical Regulation.
- 8/3 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 (9) – shall be applied after taking the necessary actions.

## **Article (9) Violations and Penalties**

- 9/1 It is prohibited to manufacture, import, place, make available or even advertise the products non-conforming with the requirements of the articles stipulated in this Technical Regulation.
- 9/2 Failure to meet the requirements of this Regulation shall be a sufficient reason for Market Surveillance Authorities and Regulatory Authorities to consider the product as non-conforming, which may pose a risk to health and safety of consumers and to environment, including, but not limited to:
- A) Non-fixing or improper fixing of conformity labels, Saudi Quality Mark, or its equivalent.
  - B) Failure to issue or improper issuance of the Certificate of Conformity or the Supplier Declaration of Conformity; or if any contains incorrect information.

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- C) Unavailability or incompleteness of the technical documents.
- D) Unavailability or incompleteness of labels, usage instructions, product data or information related to hazardous materials.

9/3 In case of a violation of the provisions hereof, Market Surveillance Authorities shall take all necessary actions to eliminate such violations, and their effects from the market. To this end, Market Surveillance Authorities may:

- A) Mandate the violating party – that is responsible for placing and making available of the product – to withdraw the product from warehouses or markets in order to remedy such violations, if possible. The product may be exported or destroyed (according to the nature of the product) within the period specified by Market Surveillance Authorities.
- B) Withdraw, restrain or destroy products, or take any other necessary action to recall such products from the market. In addition, as the case may be, Market surveillance Authorities may announce the withdrawal of the product from the market, and the violating party shall bear all associated expenses.
- C) Deal with non-conforming products covered by this regulation in accordance with laws and regulations applicable in the Regulatory Authorities and Market Surveillance Authorities.

9/4 In case of non-conformity of the products, SASO shall take the necessary actions concerning products non-conforming with the requirements herein, including the cancellation of the relevant Certificate of conformity, while taking the necessary measures with the notified body, which issued the certificate, according to the Regulation of Conformity Assessment Bodies Acceptance.

9/5 Without prejudice to any more severe sanction stipulated in the applicable regulations, whosoever violates the requirements of the adopted standards for products included in the scope of this Technical Regulation shall be subject to the sanctions stipulated in the Anti-Commercial Fraud Law..

## **Article (10) General Provisions**

10/1 Supplier shall bear full legal responsibility for the implementation of the requirements of this Technical Regulation, and shall be subject to the penalties stipulated in the Anti-Commercial Fraud law and/or any other related laws, in case any violation of the articles herein is proven.

10/2 This Technical Regulation shall not impede the supplier to comply with all other laws/regulations applicable in the Kingdom of Saudi Arabia; pertaining to trading, transporting, or storing the product, in addition to the laws/regulations related to environment, security, and safety. In addition, adhering to the requirements of this regulation shall not preclude compliance with the requirements of Saudi Building Code.

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- 10/3 Suppliers of cement, gypsum and their derivatives; subject to provisions of this regulation, shall provide the inspectors of the Regulatory and Market Surveillance Authorities with all necessary information, when required, to carry out their assigned tasks.
- 10/4 Where new originated cases that cannot be treated under the provisions herein or where a dispute arises as a result of the application of such provisions, such matter shall be referred to the competent committee in SASO, in order to issue a proper resolution regarding the case or dispute, while taking the public interest into consideration.
- 10/5 The supplier may submit a new request after elimination of the reasons of rejection for the conformity assessment procedures request, and after the necessary corrections have been made. The supplier shall be responsible for any additional expenses determined by SASO.
- 10/6 SASO shall examine the complaints received regarding the products having a Certificate of Conformity or a Quality Mark, if any, verify the validity of such complaints, and take the necessary legal actions in case of any violations.
- 10/7 SASO has the right to annul the Certificate of Conformity or the Quality Mark license, if any, if the supplier violates the provisions herein, and shall take the legal actions to ensure the preservation of the rights of SASO.
- 10/8 If any modifications were made to the product during the validity period of the Certificate of Conformity, or the Quality Mark license (except for morphological modifications), the certificate or the license shall be annulled, and a new request shall be submitted.
- 10/9 If any modifications were made to the product during the validity period of the Certificate of Conformity, or the Quality Mark license - except for ineffective morphological modifications - the Certificate of Conformity or the Supplier Declaration of Conformity for this product shall be annulled, and a new request shall be submitted.
- 10/10 SASO shall, exclusively, have the right to construe the articles herein. All beneficiaries of the application of this Technical Regulation shall adhere to the interpretations issued by SASO.

## **Article (11) Transitional Provisions**

- 11/1 This regulation shall be applied within a period not exceeding 180 days from the date of its publication in the Official Gazette
- 11/2 Subject to the provisions of Paragraph (1) of this Article, suppliers are given them a grace period to consolidate their position in the market. In accordance with the requirements contained in this law within a period not exceeding 365 days from the date of publication in the Official Gazette.
- 11/3 A transitional period shall be granted to cement and ready-mix concrete suppliers for 730 days from the date of publication of the regulation in the Official Gazette, in order to complete the procedures for obtaining the license to use the Saudi quality mark on the product.

11/4 This Technical Regulation – once adopted – shall supersede all preceding regulations in the scope of this Technical Regulation.

### **Article (12) Publication**

This Technical Regulation shall be published in the Official Gazette.

*to*

## Annex (1)

### A) List of Cement and Concrete Products and Relevant Standards

No.	Product	Title in English	Standard No.
1	Cement and Cement Products	Portland cement	SASO-GSO-1914
		Standard Specification for Blended Hydraulic Cements	SASO-ASTM-C595
		Standard Specification for Masonry Cement	SASO ASTM C91
		Mineral Fiber Hydraulic-Setting Thermal Insulating and Finishing Cement	SASO-ASTM-C449
		standard specification for slag cement for use in concrete and mortars	SASO-GSO-ASTM-C989
		standard specification for packaged, dry, rapid-hardening cementitious materials for concrete repairs	SASO-ASTM-C928
		Standard Specification for Mineral Fiber Thermal Insulating Cement	SASO-ASTM-C195
		Fibre-cement corrugated sheets and fittings for roofing and cladding	SASO ISO-10904
		Fiber-cement flat sheets -- Product specification and test methods	SASO-ISO-8336
		Fibre-cement slates and fittings -- Product specification and test methods	SASO-ISO-9125
		Standard Specification for Expansive Hydraulic Cement	SASO-ASTM-C845 / C845M
		Standard Performance Specification for Hydraulic Cement	SASO-ASTM-C1157 / C1157M
		Standard Specification for Plastic (Stucco) Cement	SASO-ASTM-C1328 / C1328M
		Standard Specification for Rapid Hardening Hydraulic Cement	SASO-ASTM-C1600/C1600M
2	Cement Additives, Mortar, and Concrete	Standard Specification for Air-Entraining Additions for Use in the Manufacture of Air-Entraining Hydraulic Cement	SASO-ASTM-C226
		Standard Specification for Air-Entraining Admixtures for Concrete	SASO-ASTM-C260
		Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete	SASO-GSO-ASTM-C1017
		Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete	SASO-ASTM-C309
		Standard Specification for Functional Additions for Use in Hydraulic Cements	SASO-ASTM-C688
		Standard Specification for Silica Fume Used in Cementitious Mixtures	SASO-ASTM-C1240
		standard specification for chemical admixtures for concrete	SASO-GSO-ASTM-C494

		Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete	SASO-ASTM-C1582
		Standard Specification for Foaming Agents Used in Making Preformed Foam for Cellular Concrete	SASO-ASTM-C869
		Ground granulated blast furnace slag for use in concrete, mortar and grout. Definitions, specifications and conformity criteria	SASO-GSO-EN-15167-1
		standard specification for coal fly ash and raw or calcined natural pozzolan for use in concrete	SASO-ASTM-C618
		Standard Specification for Pigments for Integrally Colored Concrete	SASO-ASTM-C979
		standard specification for packaged, dry, combined materials for concrete and high strength mortar	SASO-ASTM-C387/C387M
3	Bricks and Tiles, Building Units Made of Cement or Gypsum Concrete	Standard Specification for Loadbearing Concrete Masonry Units	SASO ASTM C 90
		Specification for Nonloadbearing Concrete Masonry Units	SASO ASTM C 129
		Terrazzo tiles - Part 1: Terrazzo tiles for internal use	GSO EN 13748-1
		Terrazzo tiles - Part 2: Terrazzo tiles for external use	GSO EN 13748-2
		Standard Specification for Solid Concrete Interlocking Paving Units	SASO-ASTM-C936M
		Specification for masonry units – Part 4: Autoclaved aerated concrete masonry units	SASO-GSO-EN-771-4
		Standard Specification for Concrete Building Brick	SASO-ASTM-C55
		Gypsum blocks	SASO-2217
		standard specification for prefaced concrete and calcium silicate masonry units	SASO-ASTM-C744
		Standard Specification for Calcium Silicate Brick (Sand-Lime Brick)	SASO-ASTM-C73
		Nonloadbearing lightweight thermal insulation concrete masonry units of foamed concrete, lightweight aggregates or sandwich insulation layer	SASO-2875
4	Construction Mortar	Standard Specification for Application of Portland Cement-Based Plaster	SASO-ASTM C926
		Standard Specification for Mortar Cement	SASO-ASTM C1329M
		Standard Specification for Grout for Masonry	SASO-ASTM-C476
		Specification for mortar for masonry – Part 1: Rendering and plastering mortar	SASO-EN-998-1
		standard specification for thin-bed mortar for autoclaved aerated concrete (AAC) masonry	SASO-ASTM-C1660
		Fiber-reinforced polymer (FRP) reinforcement for concrete structures - Specifications of FRP sheets	SASO ISO 18319
		Standard Specification for Mortar for Unit Masonry	SASO-ASTM-C270

5	Concrete and Concrete Products	standard specification for gypsum concrete	SASO-ASTM-C317
		standard specification for fiber-reinforced concrete	SASO-ASTM-C1116/C1116M
		standard specification for ready-mixed concrete	SASO-GSO-ASTM-C94
		standard specification for concrete made by volumetric batching and continuous mixing	SASO-GSO-ASTM-C685
		standard specification for alkali resistant (AR) glass fiber for GFRC and fiber-reinforced concrete and cement	SASO-ASTM-C1666
		standard specification for precast concrete water and wastewater structures	SASO-ASTM-C913
		standard specification for precast concrete barriers	SASO-ASTM-C825
		standard specification for precast concrete grease interceptor tanks	SASO-ASTM-C1613
		standard specification for underground precast concrete utility structures	SASO-ASTM-C858
		standard specification for precast concrete septic tanks	SASO-ASTM-C1227
		precast concrete kerbs and edgings	GSO 935 (SASO-1248)
		Standard Specification for Concrete Masonry Units for Construction of Catch Basins and Manholes	SASO-ASTM-C139
		Standard Specification for Concrete Masonry Units for Construction of Catch Basins and Manholes	SASO-ASTM-C76M
		Standard Specification for Reinforced Concrete Low-Head Pressure Pipe (Metric)	SASO-ASTM-C361M
		Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Surface protection systems for concrete	SASO-EN-1504-2
		6	Gypsum and Gypsum Products
Standard Specification for Fiber-Reinforced Gypsum Panel	SASO-ASTM-C1278		
Standard Specification for Woven Wire Plaster Base	SASO-ASTM-C1032		
Standard Specification for Gypsum Casting Plaster and Gypsum Molding Plaster	SASO-ASTM-C59		
Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel	SASO-ASTM-C1178		
Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board	SASO-ASTM-C475/C475M		
Standard Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing	SASO-ASTM-C557		

		Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing	SASO-ASTM-C1177M
		Standard Specification for Gypsum Keene's Cement	SASO-ASTM-C61
		Standard Specification for Gypsum	SASO-ASTM-C22
		Standard Specification for Bonding Compounds for Interior Gypsum Plastering	SASO-ASTM-C631
		Standard Specification for Gypsum Veneer Plaster	SASO-ASTM-C587
		Standard Specification for Gypsum Board	SASO-ASTM-C1396
		Standard Specification for Gypsum Plasters	SASO-ASTM-C28
7	Quick lime and Hydrated Lime	Standard Specification for Hydrated Lime for Masonry Purposes	SASO-ASTM-C207
		High calcium quicklime and hydrated lime	SASO-GSO-981
		Standard Specification for Hydrated Lime for Use in Asphalt Cement or Bituminous Paving Mixtures	SASO-GSO-ASTM-C1097
		Standard Specification for Quicklime for Structural Purposes	SASO-ASTM-C5
		Standard Specification for Finishing Hydrated Lime	SASO-GSO-ASTM-C206
		Standard Specification for Quicklime and Hydrated Lime for Soil Stabilization	SASO-GSO-ASTM-C977
		Standard Specification for Hydrated Hydraulic Lime for Structural Purposes	SASO-ASTM-C141
		Standard Specification for Lime for Use with Pozzolans	SASO-GSO-ASTM-C821
		Standard Specification for Pozzolanic Hydraulic Lime for Structural Purposes	SASO-GSO-ASTM-C1707
		Standard Specification for Quicklime, Hydrated Lime, and Limestone for Environmental Uses	SASO-GSO-ASTM-C1529
8	Limestone	Standard Specification for Limestone Dimension Stone	SASO-ASTM-C568
9	Sand	Standard Specification for Standard Sand	SASO-GSO-ASTM-C778
10	Aggregate	Standard Specification for Lightweight Aggregates for Concrete Masonry Units	SASO-ASTM-C331M
		Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters	SASO-ASTM-C897
		Standard Specification for Inorganic Aggregates for Use in Gypsum Plaster	SASO-ASTM-C35
		standard specification for lightweight aggregates for insulating concrete	SASO-ASTM-C332

**Note:**The list of standards mentioned in this Annex is subject to revision, suppliers shall be responsible for ensuring that they are using the latest and updated version of the standards.

## B) List of Custom Codes (HS Codes) for Relevant Product Categories

No.	Product Categories	HS Code
1	Pebbles for concrete	2517
2	Bulk Gypsum	2520
3	Packed Gypsum	
4	Limestone flux; limestone and other calcareous stone, of a kind used for the manufacture of lime or cement	2521
5	Bulk Quicklime	2522
6	Packed Quicklime	
7	Bulk slaked lime	
8	Packed slaked lime	
9	Bulk hydraulic lime	
10	Packed hydraulic lime	
11	Bulk white Portland cement	2523
12	Packed white Portland cement	
13	Bulk white cement artificially colored	
14	Packed white cement artificially colored	
15	Bulk ordinary Portland cement	
16	Packed ordinary Portland cement	
17	Bulk salt resistant cement	
18	Packed salt resistant cement	
19	Refractory cement	3816
20	Prepared Additives for cement	
21	Refractory mortar	
22	Refractory concrete	3824
23	Prepared Additives for cement, mortar or concrete	
24	Non-refractory mortar and concrete	6810
25	Building blocks and bricks of cement	

**Note:** products and HS codes available on Saber platform are the updated and approved version.

*Handwritten signature*

## Annex (2)

### Conformity Assessment Form (Type 3) as per ISO/IEC 17067

#### (Type Approval Based on Quality Assurance of Production Process)

**1- Type Approval Based on Quality Assurance the Production Process**

A model of conformity assessment procedures, by which the supplier fulfills the obligations set out in the items below, while ensuring and acknowledging - on its sole responsibility - that the concerned products are in conformity with the type specified in the Type Approval Certificate and comply with the requirements of the relevant technical regulations.

**2- Manufacturing**

The supplier shall operate with a certified Product Safety Management System, to ensure the safety of the product, including production lines, final inspection and testing of the concerned products as per Clause (3), and shall be subject to periodic surveillance as per Clause (4).

**3- Product Safety Management Law**

3/1 The supplier shall submit a request to a Notified Body of its choice, in order to evaluate the safety management law of concerned products.

The request shall include:

- A) Name and address of the supplier, and the name and address of the official representative, in case the representative submits the request.
- B) The manufacturer shall be officially licensed by the relevant authorities in the country of origin.
- C) A written declaration not to submit the same request to any other Notified Body.
- D) All relevant information regarding the concerned product category.
- E) Documentation of the Product Safety Management Law.
- F) Technical documents of the certified type, and a copy of the Type Approval Certificate.

3/2 The Product Safety Management Law shall guarantee that the manufactured products are in conformity with the type specified in the Type Approval Certificate, and with the requirements of the relevant technical regulations.

3/3 All elements and requirements of Product Safety Management Law - adopted by the supplier - shall be documented in a systematic and orderly manner in a form of written policies, procedures and instructions. The documents of the Product Safety Management Law shall provide a consistent understanding of the safety programs, plans, manuals and records. Such documents shall contain, in particular, an adequate description of the following:

- A) Quality objectives, organizational structure, responsibilities and competences of the management regarding the safety of the product.
- B) Manufacturing techniques, product safety and quality assurance procedures, and applied processes and procedures.
- C) Executed inspections and tests; before, during, and after manufacturing, and the frequency with which they will be carried out.
- D) Records: such as inspection, testing, calibration reports, and the qualification documents of relevant personnel, etc.
- E) Means of control for achieving the required product safety and the effective operation of the Product Safety Management Law.

3/4 The Notified Body, approving the Product Safety Management Law, shall assess such law to determine whether it satisfies the requirements referred to in Clause (3/3), during the period of the approval of the law, which shall be three years.

*to*

- 3/5 The product shall be presumed to comply with the requirements of the technical regulations, in relation to the items of the Product Safety Management Law, whenever it conforms to the standards.
- 3/6 In addition to experience in the relevant product safety, the auditing team shall have one technical expert - at least – who is experienced in the assessment of the field and techniques of manufacturing of the product, and is fully aware of the technical requirements stipulated in the relevant technical regulations.
- 3/7 The audit shall include an assessment visit to the plant. The auditing team shall review the technical documents referred to in Clause (3/3), in order to verify the manufacturer's ability to identify the requirements of the technical regulations and carry out the necessary examinations and tests to ensure compliance of the product with these requirements.
- 3/8 The manufacturer shall be notified of the decision after the end of the assessment, provided that such notice include audit findings, assessment decision, along with the justifications on which the decision was based.
- 3/9 The manufacturer shall be committed to satisfy the obligations of the Product Safety Management Law, as approved, and to maintain the law so that it remains adequate and efficient.
- 3/10 The manufacturer shall notify the conformity assessment body, which approved the Product Safety Management Law, of any proposed modifications to the law.
- 3/11 The Notified Body shall evaluate any proposed modifications and decide whether the modified Product Safety Management Law will continue to satisfy the requirements referred to in Clause (3/3) or a reassessment is necessary. The Notified Body shall notify the manufacturer of its decision; the notification shall include testing results along with the justifications of the assessment decision.
- 4- Periodic Surveillance Under the Responsibility of the Notified Body**
- 4/1 The purpose of periodic surveillance is to verify the extent of which the supplier meets the obligations of the certified Product Safety Management Law.
- 4/2 For assessment purposes, the supplier shall allow the Notified Body, during the validation period, to enter the manufacturing, inspection, testing and storage sites. The supplier shall provide the Notified Body with all necessary information, particularly, the Product Safety Management Law documents and safety records, such as testing and calibration reports, and the qualification documents of relevant personnel, etc.
- 4/3 The Notified Body shall carry out periodic audit visits to verify that the manufacturer applies and maintains the Product Safety Management Law, and shall provide the supplier with an audit report.
- 4/4 The Notified Body have the right to perform unexpected visits to the plant. During such visits, the Notified Body may, as necessary, carry out product tests, or have them carried out by a third party, in order to verify that the Product Safety Management Law is properly functioning. The Notified Body shall provide the supplier with an assessment report, and testing reports, in case of testing.
- 5- Certificate of Conformity and Declaration of Conformity**
- 5/1 The Notified Body shall issue a Certificate of Conformity for the product in case the supplier has an effective and certified Product Safety Management Law, upon the request of the supplier, within the validity period.
- 5/2 The Notified Body shall identify the product details in each request, clarify such details in the issued Certificate of Conformity, and record them in the electronic portal for conformity (in SASO).
- 5/3 The supplier shall provide a written Declaration of Conformity for each approved product type (Type Approval), and shall put it at the Regulatory Authorities and Market Surveillance Authorities disposal for a period of ten (10) years, at least, after the placement of the product in the market. The Declaration of Conformity of the supplier shall identify the approved product type. Furthermore, a copy of the Certificate of Conformity and the

Declaration of Conformity shall be submitted to the Regulatory Authorities and Market Surveillance Authorities upon request.

5/4 The supplier shall submit the following documents to the Regulatory Authorities and Market Surveillance Authorities upon request, for a period of ten (10) years, at least, after placement of the product in the market:

- Documentation referred to in Clause (3/3).
- The amendments referred to in Clause (3/9), as approved.
- Decisions and reports of the Notified Body, referred to in Clause (3/7).

5/5 Each Notified Body shall inform the Regulatory Authorities and Market Surveillance Authorities of issued or withdrawn Product Safety Management Law approvals, and shall periodically or upon request, provide lists of Product Safety Management Law approvals that have been rejected, suspended, or restricted by any means; on a regular basis or upon request. Each Notified Body shall inform, upon request, the other Notified Bodies of Product Safety Management Law approvals it has rejected, suspended, withdrawn, or restricted; and notify such bodies of Product Safety Management Law approvals issued by it.

## Annex (3)

### Conformity Assessment Form (Type 5) as per ISO/IEC TR 17026

#### (Certificates Issuing Scheme for Material Products)

#### Applies to Cement

#### Conformity Assessment (Type 5)

The part of surveillance in this scheme allows choosing either to withdraw samples of the product, periodically, from the production point or from the market, or from both of them, and expose them to the identification activities to make sure that the productive components, that follow the preliminary certificate meet the specified requirements. The surveillance include: the periodic evaluation of the production process or the management system auditing, or both of them. The extent of the execution of any of the four surveillance activities may change for specific case, as set out in the scheme.

If the surveillance includes the review the management system, there should be a need to the preliminary audit of the management system.

#### 1. Information submitted with the application for the product certificate

a) **Application Date:**

b) **Information of Applicant**

- 1) The applicant legal name and the address of its registered office and the contact details.
- 2) The name and job of the person that represents the contact point with the certificates granting body, authorized to sign on behalf of the applicant.
- 3) The company's address and contact details.
- 4) Role of the applicant facility (manufacturer, designer, distributor, agent ...etc)

c) **Information relating the certificate holder (if different from the applicant).**

- (1) The company legal name and the address of its registered office and the contact details.
- (2) The name and job of the person that represents the contact point with the certificates granting body, authorized to sign on behalf of the applicant.
- (3) The company's address and contact details.
- (4) Role of the certificate holder (manufacturer, designer, distributor, agent ...etc)

d) **Identification (naming) the product(s) to be granted a certificate**

- 1) Description of the product(s) including the number(s) of the catalogue, or the type of identification (s) or any descriptive ID(s).
- 2) The standard specification(s) and other standard documents required to grant the certificate, including the number, address and year of issue.

e) **Product(s) Manufacturer**

- 1) Place(s) or the actual address(s) of the product(s) manufacturer.
- 2) Name and address of the person responsible for the product quality.
- 3) Company address and contact details.

f) **Certificate and license granting agreements**

- 1) Express the fully readiness to complete the evaluation satisfactorily, to enter into an agreement for granting the applicable certificates and the license agreement, if they were not justified in the past.
- 2) Name of the nominated person (in capital figures in case of English) set out in paragraphs b and c above)
- 3) Signature

#### 2. Information relating to the production process and the management system

**a) Production Companies**

- 1) All information on the manufacturing sites required to the certificates granting to develop a plan for the evaluation.
- 2) Establishment that has the products ownership, which shall be fully responsible for the product to be granted a certificate (including the persons who represent the contact point and the contact details).
- 3) All sites in which the final product to be granted a certificate (the addresses and persons who represent the contact point and the contact details).  
**Note:** When required, this information is required also by the manufacturers with subcontracts.
- 4) Main activities carried out in all these sites.

**b) Production Organization**

- 1) Relationship of each production sites in the establishment owning the product.
- 2) The information regarding the production establishment owning the product.
- 3) Organizational structure showing the main employees involving in the production and their roles.
- 4) Powers of the persons who manage the production activities and their training.
- 5) Information on the work commencement and supervision.

**c) Purchased Materials, Components and Services**

- 1) The main purchased materials, components and services relating to the product(s) to be given a certificate.
- 2) Purchase specifications (requirements)
- 3) Suppliers qualification (testing)
- 4) Control the quality of the incoming materials (used in the production process) and components and services.

**d) Production**

- 1) Description of the production process (the main phases, the flowchart).
- 2) Subcontracting processes (description of the process, name and address of the subcontractor, details on the contract related to the product conformity).
- 3) Description of the resources used in the production and it equipment (the main materials only) (owned, especially those manufactured or amended).
- 4) Stock surveillance.
- 5) Work progress surveillance (ongoing works).
- 6) Final (completed) products surveillance.
- 7) Defective materials, components, partially installed materials and final products surveillance.

**e) Quality control by inspection and testing and authentications on the current conformity evaluation.**

- 1) Inspections and tests carried out on the main elements purchased during the manufacturing processes and on the final products.
- 2) Inspection and testing equipment.
- 3) Measurement devices calibration.
- 4) Responsibility for inspection and testing.
- 5) Authentication of the current conformity evaluation in internal or external laboratories, inspection entities, or certificates granting entities, for the product to be granted a certificate or for the main components.

**f) Documents and Records**

- 1) Specifications of the product and production (drawings, list of parts and work guidelines)
- 2) Control the changes to the product and the production process

**g) Certificates and control of marks of conformity**

- 1) The phase in which the marks are put on the product

- 2) Products surveillance to make sure that the mark is put only on the products covered by the certificate
  - 3) Copies of the current conformity certificates issued by the certificates granting entity
- h) Management system**
- 1) system specifications**
    - Conformity ISO 9001 or equivalent (reference provision)
    - Copy of the quality guide and/or the quality management system documents
    - Management system certificate (name of the certificate granting entity, the scope of the certificate granting and the covered location(s) (relating to the production of the product(s) to be granted a certificate), and a copy of the certificate(s))
  - 2) Establishment**
    - Management structure
    - Main employees
    - Quality manager in charge
    - Sufficiency (specialization) records for the main employees
  - 3) Management system maintenance**
    - Documents and records
    - Internal audit
    - Management reviews
    - Developments (corrective and preventive procedures)
    - Change management

## Annex (4)

### Information to be listed in the Certificate of Conformity as per Type (5) set out in ISO/IEC TR 17026

- 1) Certificate number and any other distinguished definition.
- 2) Name of the scheme under which the certificate shall be issued.
- 3) Certificate granting entity name and address
- 4) Client holder of the certificate name and address.
- 5) Reference to the certificates granting agreement.
- 6) Conformity statement, including:
  - A) Product name and distinguished name
  - B) Standard specification(s) and other standard documents (including the publication dates) authenticated that the product has met its requirements.
  - C) Production sites and other data (details) on the evaluation, such as the management system and production inspection.
- 7) Reference to the status of the certificate granting entity approval or the status of it recognition whenever this is possible.
- 8) Certificate expiration date (when required).
- 9) Certificate issue date.
- 10) Signature(s) legally binding the authorized signatories on behalf of the certificate granting entity.



## Annex (5)

### Supplier Declaration of Conformity

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

#### 1) Supplier data:

- Name: .....
- Address: .....
- .....
- .....
- Contact person:
- Email: .....
- Tel. No.: .....
- Fax. No.: .....

#### 2) Product details:

- Trademark:.....
- Type:.....
- Product Description:.....
- Category (according to the standards):.....
- Reference standards/ technical specifications: .....
- .....

We, hereby, acknowledge that the above-mentioned product is conforming to the Saudi technical regulation ( ), and the Saudi standards included therein.

- Person in Charge: .....
- Company: .....
- Signature: ..... Date:--/--/-----