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ARAB ENGINEERING BUREAU

1 GENERAL

1.1 INTRODUCTION

1.1.1 Scope

- 1 This Section specifies the general requirements for various methods and types of interior finishes within buildings for walls, floors, and ceilings.
- 2 The Gypsum board fire resistance classification / fire rating shall be specified in line with the project certified (life and safety) drawings by Qatar Civil Defence Department (QCDD)
- 3 The purpose of QCS is to provide as a general technical guide for acceptable construction work practices in the State of Qatar, considering this; any addition for technology, material, specification, standard that are not mentioned in this section or their modification, shall be subject to approval as stated in the introduction of QCS (00-02).
- 4 Related Sections are as follows:

Section 1	General
Section 5	Concrete
Section 15	Insulation of Buildings
Section 17	Metalwork
Section 18	Carpentry, Joinery and Ironmongery
Section 26	Painting and Decorating

1.1.2 References

- 1 The following standards are approved and/ or referred to in this Section:
 - ASTM C514.....Standard Specification for Nails for the Application of Gypsum Board
 - BS 476.....Fire tests on building materials and structures
 - BS 812,Testing aggregates
 - BS 882.....Specification for aggregates from natural sources for concrete; (EN 12620 Aggregates for concrete; BSI PD 6682-1 Aggregates - Aggregates for concrete. Guidance on the use of BS EN 12620; EN 13139 Aggregates for mortar; EN 13242 Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction; BSI PD 6682-6 Aggregates - Aggregates for unbound and hydraulically bound materials for use in civil engineering works and road construction. Guidance on the use of BS EN 13242; EN 13055 Lightweight aggregates; BSI PD 6682-4 Aggregates - Lightweight aggregates for concrete, mortar and grout. Guidance on the use of BS EN 13055-1)
 - BS 1202Specification for nails
 - BS 3416Bitumen based coating for cold application, suitable for use in contact with potable water
 - BS 4223Methods for determination of constructional details of textile floor coverings with yarn pile.
 - BS 4682Methods of test for dimensional stability of textile floor coverings
 - BS 5212Cold applied joint sealant systems for concrete pavements
 - BS 5325Installation of textile floor coverings, Code of practice

- BS 5390Code of practice for stone masonry; (EN 1996-1-2 Eurocode 6. Design of masonry structures - General rules. Structural fire design; EN 1996-2 Eurocode 6. Design of masonry structures - Design considerations, selection of materials and execution of masonry; EN 1996-3 Eurocode 6. Design of masonry structures - Simplified calculation methods for unreinforced masonry structures; BSI PD 6697 Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2)
- BS 5808Specification for underlays for textile floor coverings; (EN 14499 Textile floor coverings. Minimum requirements for carpet underlays)
- BS 5975Code of practice for temporary works procedures and the permissible stress design of falsework
- BS 6073-2Precast concrete masonry units - Guide for specifying precast concrete masonry units
- BS 8000Workmanship on construction sites
- BS 8203Code of practice for installation of resilient floor coverings
- BS 8204Screeds, bases and in situ floorings
- BS 8481Design, preparation and application of internal gypsum, cement, cement and lime plastering systems. Specification
- EN 197-1Cement - Part 1: Composition, specifications and conformity criteria for common cements
- EN 413-1Masonry cement - Part 1: Composition, specifications and conformity criteria
- EN 459-1Building lime - Part 1: Definitions, specifications and conformity criteria
- EN 520Gypsum plasterboards. Definitions, requirements and test methods
- EN 649Resilient floor coverings. Homogenous and heterogenous polyvinyl chloride floor coverings. Specification
- EN 771-3Specification for masonry units: Aggregate concrete masonry units (dense and lightweight aggregates)
- EN 772-2Methods of test for masonry units: Determination of percentage area of voids in masonry units (by paper indentation)
- EN 998-1Specification for mortar for masonry. Rendering and plastering mortar
- EN 1745Methods for determining thermal properties
- EN 10142Continuously hot-dip zinc coated low carbon steels strip and sheet for cold forming - Technical delivery conditions; (EN 10346 Continuously hot-dip coated steel flat products for cold forming - Technical delivery conditions)
- EN 10143Continuously hot-dip coated steel sheet and strip - Tolerances on dimensions and shape
- EN 12163Copper and copper alloys. Rod for general purposes
- EN 12164Copper and copper alloys. Rod for free machining purposes
- EN 12167Copper and copper alloys. Profiles and bars for general purposes
- EN 12878Pigments for the colouring of building materials based on cement and/or lime - Specifications and methods of test
- EN 13139Aggregates for mortar

- EN 13748-1Terrazzo tiles. Terrazzo tiles for internal use
EN 13748-2Terrazzo tiles. Terrazzo tiles for external use
EN 13914-1Design, preparation and application of external rendering and internal plastering: External rendering
EN 13914-2Design, preparation and application of external rendering and internal plastering: Design considerations and essential principles for internal plastering
EN 13950Gypsum plasterboard thermal/acoustic insulation composite panels - Definitions, requirements and test methods
EN 13963Jointing materials for gypsum plasterboards - Definitions, requirements and test methods
EN 14411Ceramic tiles. Definitions, classification, characteristics, evaluation of conformity and marking
EN 14195Metal framing components for gypsum plasterboard systems - Definitions, requirements and test methods
EN 14353.Metal beads and feature profiles for use with gypsum plasterboards. Definitions, requirements and test methods
EN 14496Gypsum based adhesives for thermal/acoustic insulation composite panels and plasterboards. Definitions, requirements and test methods
EN 14566Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods
ISO 105Textiles. Tests for colour fastness
ISO 2081Metallic and other inorganic coatings. Electroplated coatings of zinc with supplementary treatments on iron or steel
ISO 2082Metallic coatings. Electroplated coatings of cadmium with supplementary treatments on iron or steel
ISO 6308Gypsum plaster board specification
ISO 10545-1Ceramic tiles: Sampling and basis for acceptance
ISO 10545-2Ceramic tiles: Determination of dimensions and surface quality
ISO 10545-3Ceramic tiles: Determination of water absorption, apparent porosity, apparent relative density and bulk density
ISO 10545-4Ceramic tiles: Determination of modulus of rupture and breaking strength
ISO 10545-5Ceramic tiles: Determination of impact resistance by measurement of coefficient of restitution
ISO 10545-6Ceramic tiles: Determination of resistance to deep abrasion for unglazed tiles
ISO 10545-7Ceramic tiles: Determination of resistance to surface abrasion for glazed tiles
ISO 10545-8Ceramic tiles: Determination of linear thermal expansion
ISO 10545-9Ceramic tiles: Determination of resistance to thermal shock
ISO 10545-10Ceramic tiles: Determination of moisture expansion
ISO 10545-11Ceramic tiles: Determination of crazing resistance for glazed tiles
ISO 10545-12Ceramic tiles: Determination of frost resistance
ISO 10545-13Ceramic tiles: Determination of chemical resistance

- ISO 10545-14Ceramic tiles: Determination of resistance to stains
- ISO 10545-16Ceramic tiles: Determination of lead and cadmium given off by glazed tiles
- ISO 10595Resilient floor coverings. Semi-flexible/vinylcomposition (VCT) poly (vinyl chloride) floor tiles. Specification
- ISO 13006Ceramic tiles. Definitions, classification, characteristics and marking
- ISO 13007-1Ceramic tiles. Grouts and adhesives: Terms, definitions and specifications for adhesives
- ISO 13007-2Ceramic tiles. Grouts and adhesives: Test methods for adhesives
- ISO 13007-3Ceramic tiles. Grouts and adhesives: Terms, definitions and specifications for grouts
- ISO 13007-4Ceramic tiles. Grouts and adhesives: Test methods for grouts
- ISO 14544Fine ceramics (advanced ceramics, advanced technical ceramics) -- Mechanical properties of ceramic composites at high temperature -- Determination of compression properties
- ISO 14574Fine ceramics (advanced ceramics, advanced technical ceramics). Mechanical properties
- ISO 15165Fine ceramics (advanced ceramics, advanced technical ceramics) -- Classification system
- PD CEN/TR 15123.....Design, preparation and application of internal polymer plastering systems
- QSSpecifications of Recycled Aggregates of Construction Waste for using in Construction Works.

1.1.3 Workmanship

- 1 All work is to be performed by experienced and trained specialists or under supervision by specialists or trained personnel.

1.1.4 Scaffolding

- 1 Scaffolding is to be erected to external facades and any other areas where it is required before any work is commenced, so that good access is obtained to the whole of the working area
- 2 Scaffolding is to be supported independently of the working area and is to provide platforms at about 2 metre intervals. A gap of at least 250mm should be left between the work face and the scaffolding to allow sufficient clearance for working.
- 3 Scaffolding to be designed and erected in accordance with BS 5975.

1.2 SAMPLE PANELS AND CONTROL SAMPLES

1.2.1 Samples

- 1 Sample panels minimum size 600 x 600mm are to be prepared for all textured coatings to be used in the Works.
- 2 If the Engineer so requires, a control samples of a finishing materials shall be prepared in an agreed location within the Works (e.g. the floor tiling to a complete room). The area to be used as a control is to be completed and approved to the standard of workmanship and appearance obtained before the application of the material is proceeded with elsewhere in the Works.

END OF PART