

Approval & Reception Procedure

DEE – Departamento de Estruturas e Edifícios	
Building Water Distribution System – Water Taps	Document No.: ARP/DEE/019
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1 Reference standard

Regulations No. 46/96/M	Regulamento de Águas e de Drenagem de Águas Residuais de Macau (RADARM)
AS/NZS 3718:2005	Water supply - Tap ware
AS/NZS 4020:2005	Testing of products for use in contact with drinking water
BS 6920-1:2014	Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water. Specification
BS EN 200:2008	Sanitary tapware. Single taps and combination taps for water supply systems of type 1 and type 2. General technical specification
BS EN 817:2008	Sanitary tapware. Mechanical mixing valves (PN 10). General technical specifications
BS EN 1111:2017	Sanitary tapware. Thermostatic mixing valves (PN 10). General technical specification
BS EN 1287:2017	Sanitary tapware. Low pressure thermostatic mixing valves. General technical specification
CJ/T 194:2014	Non-contact water supply device
CJ/T 406:2012	Stainless steel faucets
GB 5749:2006	Standards for Drinking Water Quality
GB/T 17219:1998	Standard for safety evaluation of equipment and protective materials in drinking water system
GB 18145:2014	Ceramic cartridge faucets
GB 25501:2010	Minimum allowable values of water efficiency and water efficiency grades for faucets
JC/T 758:2008	Washbasin faucets

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2 Approval procedures

All materials (tap materials, fittings/accessories, interior linings, sealing tapes, etc) are required to be approved in advance, and the following documents should be submitted for the approval :

- Products specification
- Test reports or related recognized documents
- Method statements
- Depending on the actual situation, inspections on the factory will be required to verify the technical and quality competence for the project

2.1 Product specification

1. Product specification should include at least but not limited to the following content :

Items	Content
General Parameters	Reference standards for product manufacture, type, dimensions, diameter, materials, etc
Hydraulic Properties	Flow, maximum working pressure, etc
Construction Guidelines	Storage, transportation, installation method and equipment required for installation, etc

2. Unless otherwise specified in the project design, the submitted materials should comply with the requirements of the reference standard.
3. If water-saving appliances are required in the project, documents that show the proposed materials comply with the relevant requirements should be submitted.

2.2 Test reports or related recognized documents

1. Test reports or certification documents should be issued by third-party organization.
2. The submitted test reports or certification documents should be valid. If the relevant documents have not specified the valid date, it is advisable to submit the documents issued in recent three years.

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3. The test content of the test reports should include but not limited to the following :

Items	Content
General Parameters	Marking, dimensions, diameter, materials, etc
Hydraulic Properties	Flow rate tests, water-tightness tests, pressure resistance tests, etc

In general, the reference standards of the test reports should be consistent with the reference standards for product manufacture.

4. If the installed water taps are used for drinking water, valid certification documents that can be used for drinking water should be submitted for all materials of the water taps (including fittings/accessories, etc.), to ensure that the materials comply with AS/NZS 4020, GB/T 17219, BS 6920 (only for non-metal) or other equivalent standards, in order to ensure that the materials comply with the requirement of relevant standards in parameters of bacteria, heavy metals, chemical and physical, etc. If the relevant documents have not specified the effective date, it is advisable to submit the documents issued in recent three years.

2.3 Method statements

The method statements should comply with the requirements of RADARM and the designer, and should follow the construction guidelines of the product manufacturers. The contents of the method statements should state the transportation, storage, installation and cleaning, etc, of the materials.

3 Reception procedure

3.1 On-site acceptance

The contractor should submit mill certificates issued by the material manufacturers and the delivery note issued by the suppliers.

The materials delivered on-site should be good in appearance and clearly marked. The content should include: brand, model, reference standard, dimension, etc.

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3.2 Water Quality Testing

After flushing of the main water supply system, water quality testing should be performed in accordance with ARP/DEE/018.