



CECS 209: 2006

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**China Engineering Construction Standardization  
Associational Standards**

**中国工程建设标准化协会标准**

**Specification for Design of Aeration Biological  
Fluidized Tank**

**曝气生物流化池设计规程**

**China Planning Press**

**2006 Beijing**

**China Engineering Construction Standardization Associational  
Standards**

**Specification for Design of Aeration Biological Fluidized Tank**

**CECS 209: 2006**

**Chief editorial units: Shanghai Municipal Engineering Design &  
Research Institute**

**Approved by: China Engineering Construction Standardization  
Association**

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## Foreword

This Specification is formulated according to the requirement of the *Notice on Issuing the Formulation and Revision Project of the Second Batch of the Standard in 2005 Made by the China Engineering Construction Standardization Association* (No.38 JBX Zi (2005)) of the China Engineering Construction Standardization Association.

Aeration biological fluidized tank (ABFT) sewage treatment methods belong to biofilm process, and have characteristics of activated sludge process. Currently, the process has been applied in secondary treatment and deep treatment of China's urban sewage and food, brewing, papermaking, textile, coal, electricity, medicine, chemical industrial and other industrial wastewater, and achieved favorable governance effect. Practice has proved that, aeration biological fluidized tank process has advantages of a high volumetric loading rate, little land occupation, no backwash, no sludge return, does not produce sludge bulking, low power consumption, etc.. In order to make this process popularize and apply more reasonably in process of sewage treatment, formulate this regulation.

According to the requirement of the *Notice on Inviting China Engineering Construction Standardization Association to be Responsible for Organizing Pilot Work of the Recommended Engineering Construction Standard* GJJWJB [1986] No.1649, the *Specification for Design of Aeration Biological Fluidized Tank* (No.: CECS 209: 2006) is approved to be recommended to the engineering construction units for design, construction and use.

This Specification is under the jurisdiction of the Urban Water Supply and Drainage committee (CECS/TC 8) of the China Engineering Construction Standardization Association and Shanghai Municipal Engineering Design & Research Institute (address: No.901, No.2 North Zhongshan Road, postal code: 200092) is responsible for explaining it. Please send suggestions and materials to interpretation unit if parts are found need to be modified or supplied in use.

**Chief editorial units:** Shanghai Municipal Engineering Design & Research Institute

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**China Engineering Construction Standardization Association**  
**September 7, 2006**

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## **1. General Provisions**

**1.0.1** In order to regulate aeration biological fluidized tank design, achieve advanced technology, economical rationality, safety and suitable application, formulate this Specification.

**1.0.2** This Specification is applicable to medium and small town sewage treatment of new construction, expansion and reconstruction as well as water quality similar industrial sewage treatment and also applicable to nitrification treatment containing high concentration Kjeldahl nitrogen wastewater.

**1.0.3** Medium of aeration biological fluidized tank shall be macromolecule synthetic foam material.

**1.0.4** The design of sewage treatment project of the aeration biological fluidized tank, in addition to complying with the provisions of this Specification, shall also be in line with the *Code for Design of Outdoor Wastewater Engineering* GB 50014 and other national current standards.

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