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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 47396-2026

**Evaluation requirements for energy-saving and
carbon-reduction technologies in the architectural and sanitary
ceramics industry**

建筑卫生陶瓷行业节能降碳技术评价要求

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the China Building Materials Federation. This document was drafted by: Beijing Guojianlianxin Certification Center Co., Ltd., China Building Materials Federation, and Guangdong Dongpeng Holdings Co., Ltd. The company, Ningbo Oubet Sanitary Ware Co., Ltd., Xinmingzhu Group Co., Ltd., Qingyuan Jianyi Ceramics Co., Ltd., Luoyang Institute of Technology, Tianxin Technology Co., Ltd., Building Materials Industry Quality Certification Management Center. The main drafters of this document are. Li Jinmei, Liu Qingyi, Liu Xinqi, Fang Qun, Chen Shiqing, Sun Jiayi, Zhu Zhe, Su Huazhi, Yang Junzhi, and Li Bin. Wang Dongyang, Fang Minghui, Xie Xintian, Li Wei, Liu Hua, Liu Ning, Zhu Ling, Mao Weida, Wang Zhichao, Cao Xueyin. Evaluation Requirements for Energy-Saving and Carbon-Reducing Technologies in the Building and Sanitary Ceramics Industry

1 Scope

GB/T 47396-2026 is the Chinese national standard covering assessing a saving in a tile or sanitaryware plant - the kiln and the drier that account for nearly all the fuel, the body formulation and firing cycle, and the waste heat that can be recovered from one to serve the other. First edition, in force since 1 October 2026, one of the sector technology evaluation standards published together with cement and flat glass. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the China Building Materials Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself,

delivered in full with the English translation.

This document specifies the general requirements, evaluation requirements, evaluation process, and evaluation index calculation for energy-saving and carbon-reducing technologies in the building and sanitary ceramics industry. Calculation and scoring methods. This document applies to the implementation of energy-saving and carbon-reduction technology evaluation in the ceramic tile (slab) and sanitary ceramics industries.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 13234 Method for Calculating Energy Savings by Energy-Using Units

GB/T 13471 Methods for Calculating and Evaluating the Economic Benefits of Energy-Saving Projects

GB/T 19001 Quality Management System Requirements

GB 21252 Energy Consumption Limits per Unit Product for Building Sanitary Ceramics and Wear-Resistant Alumina Balls

GB/T 24001 Environmental Management Systems Requirements and Guidance for Use

GB/T 32151.9 Carbon Emission Accounting and Reporting Requirements Part

3 Terms and Definitions

The terms and definitions defined in GB 21252, GB/T 33760 and GB/T 40064 apply to this document.

4 General Requirements

4.1 The evaluation requirements shall comply with the provisions of GB/T 40064.

4.2 Complete records should include the standards and specifications on which the data is based, the data sources, the calculation methods, and the evaluation process, so as to facilitate the review and verification of the results.

4.3 The organizations and personnel conducting the evaluation should possess relevant professional capabilities and experience, and be familiar with energy-saving and carbon-reduction technologies, laws, and regulations in the relevant fields. In accordance

with standards and specifications, the organization should be equipped with at least one professional technical person in charge.

5.1 Basic Requirements

5.1.1 The evaluated party shall establish and effectively operate a quality management system and an environmental management system in accordance with GB/T 19001 and GB/T 24001.

5.1.2 Energy-saving and carbon-reducing technologies should comply with relevant laws, regulations, and policies, and products manufactured using such technologies should meet corresponding national standards.

9 Ceramic Manufacturing Enterprises

GB/T 33760 General Requirements for Project-Based Greenhouse Gas Emission Reduction Assessment Technical Specification

GB/T 40064 Guidelines for Evaluation of Energy-Saving Technologies

GB/T 45482 General Rules for Enterprise Comprehensive Energy Consumption Confirmation and Accounting