

ICS 91.060.30
CCS Q 25



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

GB/T 25998-2010

**Mineral wool decorating and acoustic ceilings
(English Translation)**

Issued on: January 10, 2011

Implemented on: October 1, 2011

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

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Foreword

This standard is drafted in accordance with the regulations of GB/T 1.1- 2009.

This standard is not equivalent to JIS A 6301-2007 "Sound-absorbing Materials" on the contents of rock wool decorating and acoustic ceilings.

Please note that some contents of this standard may involve patents; the issuing organization of this standard shall not undertake the responsibility of identifying these patents.

This standard was proposed by the China Building Materials Federation.

This standard shall be under the jurisdiction of the National Technical Committee on Insulation Materials of Standardization Administration of China (SAC/TC 191).

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Mineral Wool Decorating and Acoustic Ceilings

1 Scope

This standard specifies the classification and marking, requirements, test methods, inspection rules, marks and labels, packaging, transportation and storage of mineral wool decorating and acoustic ceilings (hereinafter referred to as "acoustic ceilings").

This standard is applicable to the mineral wool decorating and acoustic ceilings produced by the wet-process method or dry-process method.

2 Normative References

The following documents are indispensable for the application of this standard. For dated references, only the dated edition is applicable to this document. For undated references, the latest editions of the normative documents (including all the amendments) are applicable to this document.

GB/T 191 Packaging - Pictorial Marking for Handling of Goods

GB/T 3947 Acoustical Terminology

GB/T 4132 Definitions of Terms Relating to Thermal Insulating Materials

GB/T 5480 Test Methods for Mineral Wool and its Products

GB 6566 Limit of Radionuclides in Building Materials

GB 8624-1997 Classification for Burning Behavior of Building Materials and Products

GB/T 10294 Thermal Insulation - Determination of Steady-state Thermal Resistance and Related Properties - Guarded Hot Plate Apparatus

GB/T 10295 Thermal Insulation-Determination of Steady-state Thermal Resistance

and Related Properties - Heat Flow Meter Apparatus

GB/T 17657-1999 Test Methods of Evaluating the Properties of Wood-based Panels and Surface Decorated Wood-based Panels

GB 18580 Indoor Decorating and Refurbishing Materials - Limit of Formaldehyde Emission of Woodbased Panels and Finishing Products

GB/T 18696.1 Acoustics - Determination of sound absorption coefficient and impedance in impedance tubes - Part 1.Method using standing wave ratio

GB/T 18696.2 Acoustics - Determination of sound absorption coefficient and impedance in impedance tubes - Part 2.Transfer function method

GB/T 20247 Acoustics - Measurement of sound absorption in a reverberation room

GB/T 20313 Hygrothermal performance of building materials and products - Determination of moisture content by drying at elevated temperature

HJ/T 206 Technical requirement for environmental labeling products - Asbestos free building materials

3 Terms and Definitions

For the purposes of this document, the terms and definitions in GB/T 3947 and GB/T

4132 AND the following ones apply.

3.1

Mineral wool decorating and acoustic ceilings

The decorating and acoustic ceilings materials that use mineral wool, rock wool and glass wool as the major raw materials through wet-process or dry-process method.

3.2

Wet-process ceilings

The mineral wool decorating and acoustic ceilings that are made by the wet-process method such as slurring, forming, drying and post-processing.

3.3

Dry-process ceilings

The mineral wool decorating and acoustic ceilings that are made of mineral (rock)

wool ceilings or glass wool ceilings as the base materials.

3.4

Nominal size

It is a general term of the size of product specification.

3.5

Actual size

Table 5

Type

Noise reduction coefficient (NRC)

Reverberant room method

(rigid wall)

Impedance pipe method

(rear-cavity. 50mm)

Wet-process ceilings

Knurling ≥ 0.50 ≥ 0.25

Others ≥ 0.30 ≥ 0.15

Dry-process ceilings ≥ 0.60 ≥ 0.30

5.8 Damping deflection

The damping deflection of wet-process ceilings shall not be greater than 3.5mm while the damping deflection of dry-process ceilings shall not be greater than 1.0mm.

5.9 Radionuclide limit

It shall reach the requirements of Category A finishing materials specified in GB 6566, namely the internal exposure index I_{Ra} shall not be greater than 1.0 and the external exposure index I_r shall not be greater than 1.3.

5.10 Formaldehyde emission

It shall reach the requirements of Grade E1 specified in GB 18580, namely the formaldehyde emission shall not be greater than 1.5 mg/L.