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

GB 22337-2008

**Emission standard for community noise
(English Translation)**

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Foreword

To implement the "People's Republic of China Environmental Protection Law" and "People's Republic of China Environmental Noise Pollution Prevention Law," Health and Social Prevention

Live noise pollution and improve the sound quality of the environment, the development of this standard.

This standard is based on the existing laws of social life noise pollution discharge of obligations under, for business and commercial culture and entertainment

Business activities may produce environmental noise pollution equipment and facilities that define the boundaries of noise emission limits and measurement methods.

This standard is the first release.

This standard is developed by the Ministry of Environmental Protection Science, Technology organization.

This standard was drafted. Beijing Labor Protection Science Research Institute, the Beijing Municipal Environmental Protection Bureau, Guangzhou Municipal Environmental Monitoring Center.

This standard MEP July 17, 2008 for approval.

This standard since October 1, 2008 implementation.

The standard explanation by the Ministry of Environmental Protection.

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Social life of environmental noise emission standards

1 Scope

This standard specifies the business culture and entertainment and business activities that may produce environmental noise pollution equipment and facilities border

Noise emission limits and measurement methods.

This standard applies to commercial cultural entertainment, noise emissions to the environment of equipment for use in business activities, facilities

Management, evaluation and control.

2 Normative references

This standard refers to the contents of the following documents or the terms. For undated references, the effective version applies to this standard.

GB electric, acoustic performance and test methods 3785 Sound Level Meter

GB/T 3241 octave and fractional octave filters

GB/T 15173 acoustic calibrator

GB/T 17181 points average sound level meter

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1

Social life noise community noise

Noise refers to the business culture and entertainment and business activities in the use of equipment and facilities produced.

3.2

Noise-sensitive buildings noise-sensitive buildings

Refers to hospitals, schools, institutions, research institutes, such as the need to keep quiet residential building.

3.3

A sound level A-weighted sound pressure level

With A-weighted sound pressure level measured network with LA, the unit dB (A).

3.4

Equivalent continuous A sound level equivalent continuous A-weighted sound pressure level

Referred to as the equivalent sound level, refer to the average energy within a predetermined time T A sound level measurement, with the LAeq, T represents (abbreviated as Leq), the unit dB (A). Unless otherwise specified, this standard noise limits

are all equivalent sound level.

By definition, the equivalent sound level is expressed as.

$$L_{eq} = 10 \lg$$

100.1 · LAd () t

Where. LA --- t time the instantaneous sound level A;

The T --- predetermined measurement period.

3.5

Border boundary

By the legal instruments (such as land use permits, real estate license, lease contracts, etc.) determined the owners have the right to use (or ownership)

Place or building boundary. Noise generated by various fixtures, border facilities for its actual area boundary.

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3.6

Background noise background noise

Environmental noise is emitted from a sound source other than the sum of the measurement noise source.

3.7

Octave band sound pressure level sound pressure level in octave bands

Used in line with band SPL octave filters measured GB/T 3241 regulations, the measurement bandwidth and center frequency proportional.

Interior noise octave band center frequency spectrum analysis used in this standard is 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, which covers

Frequency range of 22 ~ 707 Hz.

3.8

Diurnal day-time, night, night-time

According to "People's Republic of China Environmental Noise Pollution Prevention Law," "daytime" refers to the 6. 00 hours between; "Night". 00-22

22 means. the period between 00. 00 to 6.00 the next day.

Above the county level for the needs of environmental noise pollution prevention and control (such as considering the time difference, habits differences) and for daytime, night

Divided between otherwise specified, it shall be its provisions.

4.1 Boundary noise emission limits

4.1. 1 social life noise sources shall not exceed the boundaries of noise emission limits specified in Table 1.

Table 1 social life noise sources boundary noise emission limits Unit. dB (A)

Outer boundary acoustic environment functional area category time Daytime Nighttime

4.1. 2 can not be the result of noise measurement or measured noise emission sources in the social life at the boundary does not accurately reflect its noise-sensitive construction

Under the influence of the extent of the buildings, the noise measurement shall be carried out in the potentially affected sensitive buildings out the window at 1 m.

4.1. 3 when the social life noise sources and noise-sensitive buildings boundary distance is less than 1 m, shall indoor noise-sensitive structures

Measurement and corresponding limits in Table 1 minus 10 dB (A) as a basis for evaluation.

4.2 structure-borne noise emission limits for indoor fixtures

4.2. 1 in social life noise sources located in the inner noise-sensitive buildings, the noise transmission to the building structure by noise-sensitive

When building an indoor, indoor noise-sensitive buildings shall not exceed the equivalent sound level in Table 2 and Table 3 limits specified.

Table 2 structure-borne noise emission limits for indoor fixed equipment (equivalent sound level) Unit. dB (A)

Category in which the ribbon

Noise-sensitive buildings acoustic environment periods

Rooms Room Type A Class B Class Room

Day Night Day Night

2,3,4 45,355,040

Description. A class room --- refers to the primary purpose of sleep, the need to ensure a quiet room at night, including residential bedrooms, hospital wards, hotel rooms and the