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

GB/T 21232-2007

**Acoustics -- Guidelines for noise control in offices and
workrooms by means of acoustical screens**

声学 办公室和车间内声屏障控制噪声的指南

(English Translation)

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Foreword

This standard is identical with ISO 17624:2004 "Acoustics offices and workshops within the sound barrier noise control guidelines" (in English).

Appendix A of this standard is an informative annex.

This standard was proposed by the Chinese Academy of Sciences.

This standard by the National Standardization Technical Committee of Acoustics (SAC/TC17) centralized.

This standard was drafted. Acoustics, Chinese Academy of Sciences, Shanghai Academy of Environmental Sciences, Shenzhen Ya Electrical and Mechanical Industry Co., Ltd., Shanghai the Department of Public foam Aluminum Co., Ltd., Nanjing Chang Rong Environmental Noise Control Engineering Co., Ltd., Beijing Institute of labor protection, environmental protection long Shao Bang Industrial Co., Ltd.

Introduction

Indoor sound barrier is outside the muffler and acoustic enclosures (see GB/T 20431-2006 "acoustic muffler noise control guidelines" and Office options "GB/T 19886-2005" Room Acoustics and acoustic noise control enclosures Guide ") and the auxiliary noise control workshop Measures. In GB/T 17249.2-2005. Appendix "low - noise workplaces Design Guide Part 2 noise control measures" E and F are given with the workplace (including machine including) the interior surface acoustic barriers and acoustic treatment of some information. More detail Information can be found in the literature.

GB/T 21232-2007/ISO 17624:2004 Acoustic offices and workshops within the sound barrier noise control guidelines

1 Scope

This standard discusses the sound barrier effectiveness. It provides the user with a sound barrier supplier or manufacturer for an acoustic and consensus to use begging. This standard can be used for the following types of sound barrier.

- a) for offices, service areas, exhibition and similar independent sound barrier;
- b) with such places furnishings combining sound barrier;
- c) workshop for portable and mobile sound barrier;
- d) the absence of acoustic treatment, with more than 10% of the opening area of the room fixed partition walls.

The same room together with the boundary surface of the room separated by a partial wall insulation cover and the workplace, without making the surface acoustic processing, and has More than 10 percent open area can also be seen as a sound barrier.

Note: GB/T 19886 gives the fully enclosed acoustic enclosure guidelines.

This standard does not apply to the thickness of the walls and small rooms more than 0.2m

of a similar multilayer wall, it does not apply to banners and other types of suspension Baffle.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 17249.1-1998 low - noise workplaces Design Guide - Part 1. Noise control strategies (eqv ISO 11690-1:1996) GB/T 17249.2-2005 low - noise workplaces Design Guide Part 2. Noise control measures (ISO 11690-2.

1996, IDT)

GB/T 18696.1 acoustic impedance tube sound absorption coefficient and impedance measurement - Part 1. standing wave ratio method (GB/T 18696.1-2004, ISO 10534-1:1996, IDT) GB/T 18696.2 acoustic impedance tube sound absorption coefficient and impedance measurement - Part 2. Transfer function method (GB/T 18696.2-2002, ISO 10534-2:1998, IDT) GB/T 19887 Acoustics sound attenuation movable barrier field measurements (GB/T 19887-2005, ISO 11821:1997, IDT) GB/T 19889.3 Acoustics Measurement of sound insulation buildings and building elements - Part 3. building elements Laboratory measurements of airborne sound insulation (GB/T 19889.3-2005, ISO 140-3, IDT) GB/T 20247 acoustic reverberation chamber sound absorption measurements (GB/T 20247-2006, ISO 354:2003, IDT) GB/T 50121 construction noise evaluation standard (GB/T 50121-2005) ISO 9053 Determination of acoustic sound-absorbing material flow resistance ISO 11654 Acoustics acoustic sound absorbing mechanism building evaluation

3 Terms and Definitions

The following terms and definitions apply to this standard.

For a given area of one or more specified location specifically designed to block out the noise source specified object.

GB/T 21232-2007/ISO 17624:2004