

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

JT/T 646-2005

**Specifications and examining methods for highway noise
barriers materials**

公路声屏障材料技术要求和检测方法 清晰版

(English Translation)

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Foreword

Appendix A of this Standard is normative.

This Standard was proposed by Highway Research Institute of Ministry of Transport.

This Standard shall be under the jurisdiction of Science, Technology and Education Division of Ministry of Transport.

Drafting organization of this Standard. Highway Research Institute of Ministry of Transport.

1 Scope

This Standard specifies the classification, technical requirements and test methods of highway noise barriers materials.

This Standard applies to noise barriers materials to reduce traffic noise of various grades of highways.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest

versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB 8624 Classification for burning behavior of building materials and products

GB/T 18226 Highway Traffic engineering technical conditions of the steel component anticorrosion

GB 50003 Code for design of masonry structures

GB 50010 Code for design of concrete structures

GBJ 17 Code for Design of Steel Structures

GBJ 47 Acoustics-sound-absorption coefficient measurement by method of reverberation room (Trial)

GBJ 75 Acoustics-measurement of sound insulation in buildings specifications

GBJ 129 Testing methods of basic mechanical performance of masonry structures

Combustion property of plate-shaped acoustic materials shall meet the requirements of Class B of GB 8624.

5.2.6 Appearance

According to the project design requirements, for the metal material's surface that needs color treatment, it may adopt polyester to perform powder coating. Coating layer performance shall meet the requirements of GB/T 18226.

5.3.2 Anti-corrosion performance

Requirements to anti-corrosion performance of metal structural materials are the same as 5.2.4.

5.3.3 Appearance

Appearance requirements are the same as 5.2.6.

6.1 Insulation index test shall be executed according to GBJ 75; noise reduction coefficient test shall be executed according to GBJ 47.

6.2 Deflection test of plate-shaped acoustic materials shall be executed according to

Appendix A.

6.3 Strength performance test of block-shaped acoustic materials shall be executed

according to GBJ 129.

6.4 Anti-corrosion coating layer performance test shall be executed according to GB/T

18226.

6.5 Fireproof performance test shall be executed according to GB 8624.

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