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

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**Calibration Specification for Standard Tapping Machines
(English Translation)**

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Table of Contents

Introduction (II)	
1 Scope (1)	
2 References (1)	
3 Terms and units of measure (1)	
3.1 Average sound pressure level (1)	
3.2 Specimen impact sound pressure level (2)	
4 Overview (2)	
5 Metrological characteristics (2)	
5.1 Specimen impact sound pressure level repeatability (2)	
5.2 Impact Hammer Quality (2)	
5.3 Impact Hammer Diameter and Spacing (2)	
5.4 Free fall height of impact hammer (2)	
5.5 Hammer Head Radius (2)	
5.6 Fall direction of impact hammer (2)	
5.7 Impact Time (2)	
5.8 Impact Speed (3)	
6 Calibration Conditions (3)	
6.1 Environmental Conditions (3)	
6.2 Measurement Standards and Other Equipment (3)	
7 Calibration Items and Calibration Methods (3)	
7.1 Calibration Items (3)	
7.2 Calibration Methods (4)	
8 Expression of Calibration Results (8)	
8.1 Calibration Data Processing (8)	
8.2 Measurement Uncertainty of Calibration Results (8)	
8.3 Calibration Certificate (9)	
9 Re-school interval (9)	
Appendix A Internal Format of Calibration Certificate (10)	
Appendix B Examples of Measurement Uncertainty Evaluation (12)	

9 Re-school interval (9)

Appendix A Internal Format of Calibration Certificate (10)

Appendix B Examples of Measurement Uncertainty Evaluation (12)

Introduction

This specification is prepared in accordance with the requirements and format of JJF 1071-2010 "Rules for the preparation of national metrological calibration specifications".

In the formulation of this specification, the main reference in technology is GB/T 19889.6-2005 Acoustic Architecture and Architecture.

Sound insulation measurement of components - Part 6. Laboratory measurements of sound insulation by floor impacts" and GB/T 19889.7-2005 Sound insulation measurement of buildings and building components - Part 7. Field measurement of sound insulation in floor slabs" Performance parameters of the device and its test methods.

This specification gives the impact sound pressure of the test piece according to JJF 1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement".

An example of the evaluation of the measurement uncertainty of the class and impact velocity.

This specification is the first release.

Standard Impactor Calibration Specifications

1 Scope

This specification applies to the calibration of standard impactors for sound insulation measurements.

2 references

This specification refers to the following documents.

JJF 1001 Universal Measurement Terms and Definitions JJF 1034 Acoustic Measurement Terms Terms and Definitions JJF 1059.1 Evaluation and Expression of Measurement Uncertainty GB/T 3102.7 Acoustic quantities and units GB/T 3785.1 Electroacoustic sound level meter Part 1. Specification GB/T 19889.6-2005 Acoustics Measurement of sound insulation of building and building components - Part 6. Floor impact Soundproof laboratory measurements GB/T 19889.7-2005 Acoustics Measurement of sound insulation of building and building components Part 7. Floor impact Sound insulation on-site measurement GB/T 20441.4-2006 Measurement microphones Part 4. Working standard microphone specifications for dated references, only dated editions apply to this specification; all undated references the latest version (including all amendments) applies to this

specification.

3 Terms and units of measure this specification uses the quantities and units specified in GB/T 3102.7.

The terms and definitions defined in JJF 1001 and JJF 1034 apply to this specification.

Average sound pressure level the ratio between the square of the sound pressure squared and the square of the reference sound pressure. Take 10 as the base logarithm and multiply it by 10.

See equation (1).

$$L=10\lg$$

$$T_{\text{integral}}$$

$$P^2(t)dt$$

$$P_{20}$$

In the formula.

L---average sound pressure level, dB;

T_m - sound pressure level measurement duration, s;