

ICS 13.020
CCS P 41

CJ

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

CJ/T 312-2009

**Measurement of noise from building water drainage piping
system**

建筑排水管道系统噪声测试方法

(English Translation)

Issued on: May 18, 2009

Implemented on: December 1, 2009

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

Table of Contents

Foreword	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Symbol	
5 Experimental principle	
6 Experimental equipment	
Experimental facilities	
8 Sample	
Experiment	
10 Experimental Report	
Appendix A (Normative) Wall structure sensitivity measurement	
Appendix B (informative) Calibrated Experimental Wall Reciprocal Law	
Appendix C (informative) test report standard format	

Foreword

This standard is modified using EN14366.:2004 "laboratory measurement of wastewater noise" (Laboratory measurement of noise from wastewater installations). The main technical differences from EN14366.:2004 are as follows.

- According to the Chinese habit of some layout format has been modified;
- Increasing the drainage pipe system terms and definitions;
- Remove the rain down the pipe test application;
- Increasing the number of test microphone position, the choice of requirements, while increasing the average sound pressure level terms, definitions and algorithms formula;
- Modify the distance between the bottom elbow and the floor to suit China's national conditions;
- Modify the test laboratory floor, while increasing the number of laboratories in order to achieve the same time test the drainage of adjacent two layers the influence of noise
- Increasing the application of the test method for the noise generated by the drainage pipe system containing sanitary appliances;

--- Increased inspection report reference format.

Appendix A of this standard is a normative appendix, Appendix B and Appendix C are informative appendices.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Water Supply and Drainage Products Standardization Technical Committee.

1 Scope

This standard specifies the terms and definitions of noise measurements generated by the building drainage piping system under laboratory conditions, symbols, experimental principles, Experimental equipment, laboratory facilities, samples, experiments, laboratory reports.

This standard applies to building drainage pipe system noise test.

Test results can be used for the construction of drainage pipe system related products and materials between the comparison can also be used under certain conditions, building drainage Estimation of noise characteristics of channel system.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. All dated references, which are subsequently owned Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to reach an agreement based on this standard research Whether you can use the latest versions of these files. For undated references, the latest version applies to this standard.

GB/T 4129 Acoustics Standard sound source performance and calibration requirements for sound power level determination GB/T 14412 mechanical vibration and impact accelerometer mechanical installation GB/T 19889.3-2005 Acoustics - Measurement of sound insulation in buildings and of building elements - Part 3. Experimental study of airborne sound insulation of building elements Room measurement GB/T 20247 acoustic reverberation room sound absorption measurement GB/T 20485.21 vibration and shock sensor calibration method - Part 21. Vibration comparison method calibration

3 Terms and definitions

The following terms and definitions apply to this standard.

For the discharge of daily sewage and wastewater pipes, fittings, all fixed components and

sanitary appliances consisting of a system of general.

Experimental Object Combination System for Noise Testing.

Laboratory for the installation of noisy test samples and for measuring the airborne sound generated by the samples.

It is not intended to be used in laboratories that emit noise samples but measure the structure of the samples.

Specified sample format for benchmarking.

Specified installation conditions for standard configuration.