



BSI Standards Publication

## Acoustics — Soundscape

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Part 2: Data collection and reporting requirements

## National foreword

This Published Document is the UK implementation of ISO/TS 12913-2:2018.

The UK participation in its preparation was entrusted to Technical Committee EH/1/3, Residential and industrial noise.

A list of organizations represented on this committee can be obtained on request to its secretary.

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© The British Standards Institution 2018  
Published by BSI Standards Limited 2018

ISBN 978 0 580 99688 7

ICS 17.140.01

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 August 2018.

### Amendments/corrigenda issued since publication

| Date | Text affected |
|------|---------------|
|------|---------------|

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TECHNICAL  
SPECIFICATION

**ISO/TS**  
**12913-2**

First edition  
2018-08-30

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**Acoustics — Soundscape —**  
**Part 2:**  
**Data collection and reporting**  
**requirements**

*Acoustique — Paysage sonore —*  
*Partie 2: Collecte de données*



Reference number  
ISO/TS 12913-2:2018(E)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

A list of all parts in the ISO 12913 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

The ISO 12913 series on soundscape was developed in order to enable a broad international consensus and to provide a foundation for communication across disciplines and professions with an interest in soundscape. ISO 12913-1 provides the definition of and a conceptual framework for the term “soundscape”.

The concept of soundscape was adopted to provide a holistic approach to the acoustic environment beyond noise, and its effect on the quality of life. Soundscape suggests assessing all sounds perceived in an environment in all its complexity. To do this, soundscape studies use a variety of data collection related to human perception, acoustic environment and context. Importantly, the study of soundscape relies primarily upon human perception and only then turns to physical measurement.

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# Acoustics — Soundscape —

## Part 2:

# Data collection and reporting requirements

## 1 Scope

This document specifies requirements and supporting information on data collection and reporting for soundscape studies, investigations and applications.

This document identifies and harmonizes the collection of data by which relevant information on the key components people, acoustic environment and context is obtained, measured and reported.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 532-1, *Acoustics — Methods for calculating loudness — Part 1: Zwicker method*

ISO 1996-1, *Acoustics — Description, measurement and assessment of environmental noise — Part 1: Basic quantities and assessment procedures*

ISO 12913-1, *Acoustics — Soundscape — Part 1: Definition and conceptual framework*

ITU-T P.58:2013, *Head and torso simulator for binaural acoustics*

ANSI/ASA S 3.36:2012, *Specification for a Manikin for Simulated in-situ Airborne Acoustic Measurements*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12913-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1 background sound

sound which is heard continuously or frequently enough to form a background against which other sounds are perceived

Note 1 to entry: Often these sounds are not consciously perceived, but they act as conditioning agents in the perception of *foreground sounds* (3.3).

### 3.2 descriptor

term which is used to describe the perception of any acoustic environment