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**Acoustics — Laboratory and field  
measurement of the flanking  
transmission for airborne, impact and  
building service equipment sound  
between adjoining rooms —**

**Part 5:  
Radiation efficiencies of building  
elements**

*Acoustique — Mesurage en laboratoire et sur site des transmissions  
latérales du bruit aérien, des bruits de choc et du bruit d'équipement  
technique de bâtiment entre des pièces adjacentes —*

*Partie 5: Efficacité de rayonnement des éléments de construction*

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## Foreword

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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)).

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This document was prepared by ISO/TC 43, *Acoustics*, Subcommittee SC 2, *Building acoustics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 126, *Acoustic properties of building elements and of buildings*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 10848 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

ISO 10848 (all parts) specifies laboratory and field measurement methods to characterize the flanking transmission of one or several building components.

This document describes the measurement of the radiation efficiency of an element using structure-borne excitation and/or acoustical excitation. Both these radiation efficiencies are required to estimate the sound reduction index due to resonant transmission only, according to ISO 12354-1:2017, Annex B.

For Type B elements as defined in ISO 10848-1 and ISO 12354-1, the radiation efficiency of an element using structure-borne excitation is required to calculate flanking transmission. It is also required to estimate adaptation terms used in predicting service equipment sound according to EN 12354-5.

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