SLOVENSKI STANDARD
SIST EN ISO 10848-5:2020

01-december-2020

Akustika - Laboratorijsko in terensko merjenje bočnega prenosa zvoka v zraku, udarnega zvoka in zvoka v gradbenih elementih servisne opreme med mejnimi prostori - 5. del: Učinkovitost sevanja gradbenih elementov (ISO 10848-5:2020)

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 (ISO 10848-5:2020)

Akustik - Messung der Flankenübertragung von Luftschall und Trittschall zwischen benachbarten Räumen im Prüfstand - Teil 5: Strahlungswirksamkeit von Bauelementen (ISO 10848-5:2020)

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 (ISO 10848-5:2020)

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EUROPEAN STANDARD

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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 (ISO 10848-5:2020)

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 10848-5:2020) has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 126 “Acoustic properties of building elements and of buildings” the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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Endorsement notice

The text of ISO 10848-5:2020 has been approved by CEN as EN ISO 10848-5:2020 without any modification.

INTERNATIONAL STANDARD

ISO 10848-5

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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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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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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).

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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.

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.