

TECHNICAL REPORT

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English Version

Building products - Treatment of acoustics in product technical specifications

Produits de construction - Traitement de l'acoustique
dans les spécifications techniques produits

Bauprodukte - Behandlung der Akustik in technischen
Produktspezifikationen

This Technical Report was approved by CEN on 8 September 2025. It has been drawn up by the Technical Committee CEN/TC 126.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (CEN/TR 15226:2025) has been prepared by Technical Committee CEN/TC 126 “Acoustic properties of building elements and of buildings”, the secretariat of which is held by AFNOR.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TR 15226:2006.

In comparison with the previous version, this revision has mainly been focused on:

- updating the normative references (Clause 2) and adding an Annex listing the standards related to relevant acoustic properties;
- reviewing the acoustic terms and definitions (Clause 3);
- reviewing Annex on relevant measured acoustic properties for some common products.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

1 Scope

This document specifies the method for declaring the technical classification relating to acoustics for a Product Standard including DoP, or European assessment document (EAD) including European Technical Approval (ETA) for a specific building product or equipment, or a family of building products or equipment. In particular, it gives advice on how to write technical specifications in response to the mandated characteristics on acoustics under the Construction Products Regulation.

NOTE 1 In the remainder of this document, the terms used relate to CEN and product standards. The concepts are, however, equally applicable to the European Organisation for Technical Approvals (EOTA).

The purpose of this document is to assist the Technical Committees in preparing acoustic clauses to ensure that such product standards:

- are as homogeneous as possible, with each individual product standard having the same basic structure;
- are in full accordance with the standards for the measurement and declaration of acoustic properties;
- reflect the latest technical knowledge of methods of determining the acoustical properties from the specific family of building products or equipment under consideration.

NOTE 2 Annex A lists the European and International Standards to be used in the drafting of acoustic provisions standards. Annex B contains guidance on choosing appropriate properties. Annex C describes the relevant measured acoustic properties for common products.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology 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 general terms

3.1.1 equivalent continuous sound pressure level, $L_{eq,T}$ (dB)

value of the sound pressure level in decibels of a continuous, steady sound, that within a specified time interval, T , has the same mean squared sound pressure as the sound under consideration that varies with time

3.1.2 octave band

band of frequencies in which the upper limit of the band is twice the frequency of the lower limit

3.1.3 one third octave band

band of frequencies in which the upper limit of the band is $2^{1/3}$ times the frequency of the lower limit