

## **A**COUSTICS

"Acoustics includes all aspects of generation, propagation, transmission, reproduction, reception, measurement and the effects of sound, and noise affects virtually every aspect of human endeavor."

(Source: ISO - Strategic Business Plan - ISO/TC 43 - October 2021)

Standardization in the field of building acoustics.

Scope



## MAIN TECHNICAL COMMITTEES ON ACOUSTICS STANDARDIZATION

## - International level -

- International level -									
➤ ISO/TC 43/SC 2 – Building acoustics									
	Standards	<b>52</b>	Projects	3		National delegates	1		
8 Working Groups									
WG 18	Measurement of sound insulation in buildings and of building elements			WG 27	Inc	door acoustic environment			
WG 29	Acoustic classification scheme for buildings			WG 32	De	etermination of acoustical parameters	of materials		
WG 33	Acoustic quality criteria for music rehearsal rooms and spaces			WG 34	WG 34 Revision of ISO 3382-3				
WG 35	Sound absorption			WG 36	6 Room Acoustics				
- European level -									
CEN/TC 126 – Acoustic properties of building elements and of buildings									
	Standards	55	Projects	1		National delegates	1		
Standardization in the field of acoustic properties of building elements and of buildings, including: laboratory methods, expression of results and accuracy; rating of acoustic properties of elements; field measurement methods, expression of results and accuracy; rating of acoustic properties of buildings; methods for determining the acoustic of buildings from the performance of its elements.									
5 Working Groups									
WG 1	Methods for measuring the sound insulation of building elements and the acoustic performances of buildings			WG 2	Prediction of the acoustic performance of buildings from the performance of elements				
WG 5	Coordination working group		WG 7	Labo	Laboratory measurement of airborne and structure borne sound from building equipment				
WG 12	BIM Acoustics			wg /			born		
- National level -									
<b>&gt;</b>	➤ ILNAS/TC 103 – Acoustics								
	Standards	1	Projects	0		National delegates	15		



## MAIN STANDARDS ON ACOUSTICS

Determination and application of measurement							
uncertainties in building acoustics							
EN ISO 12999-1:2020	Part 1: Sound insulation						
EN ISO 12999-2:2020	Part 2: Sound absorption						
Determination of airflow resistance							
EN ISO 9053-1:2018	Part 1: Static airflow method						
EN ISO 9053-2:2020	Part 2: Alternating airflow method						
Determination of dynamic stiffness							
EN 29052-1:1992	Part 1: Materials used under floating floors in						
	dwellings Part 1: Materials used under floating floors in						
ISO 9052-1:1989	dwellings						
Determination of sound absorption coefficient and impedance in impedances tubes							
EN ISO 10534-1:2001	Part 1: Method using standing wave ratio						
EN ISO 10534-2:2001	Part 2: Transfer-function method						
EN ISO 10534-2:2023	Part 2: Two-microphone technique for normal sound						
	absorption coefficient and normal surface impedance ent of sound insulation in buildings and of						
building elements							
EN ISO 16283-1:2014	Part 1: Airborne sound insulation - Amended in 2017						
EN ISO 16283-2:2020	Part 2: Impact sound insulation						
EN ISO 16283-3:2016	Part 3: Façade sound insulation						
	eld measurement of flanking transmission						
for airborne, impa	ct and building service equipment sound						
b	etween adjoining rooms						
EN ISO 10848-1:2017	Part 1: Frame document						
EN ISO 10848-2:2017	Part 2: Application to Type B elements when the junction has a small influence						
EN ISO 10848-3:2017	Part 3: Application to Type B elements when the						
	junction has a substantial influence Part 4: Application to junctions with at least one Type						
EN ISO 10848-4:2017	A element						
EN ISO 10848-5:2020	Part 5: Radiation efficiencies of building elements						
	Part 5: Radiation efficiencies of building elements surement of sound insulation of building elements						
	surement of sound insulation of building						
Laboratory mea	surement of sound insulation of building elements						
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EN ISO 3382-3:2022	Part 3: Open plan offices						
Measurement	of sound insulation in buildings and of						
building elements using sound intensity							
EN ISO 15186-1:2003	Part 1: Laboratory measurements						
EN ISO 15186-2:2010	Part 2: Field measurements						
EN ISO 15186-3:2010	Part 3: Laboratory measurements at low frequencies						
Other Measurements							
EN ISO 354:2003	Measurement of sound absorption in a reverberation room						
ISO 23351-1:2020	Measurement of speech level reduction of furniture ensembles and enclosures - Part 1: Laboratory method						
EN ISO 16032:2004	Measurement of sound pressure level from service equipment in buildings - Engineering method						
EN ISO 10052:2021	Field measurements of airborne and impact sound insulation and of service equipment sound - Survey method						
Rating of sound insulation in buildings and of building							
elements							
EN ISO 717-1:2020	Part 1: Airborne sound insulation						
EN ISO 717-2:2020	Part 2: Impact sound insulation						
	Test code						
EN 16703:2015	Test code for drywall systems of plasterboard with						
	steel studs - Airborne sound insulation						
EN 16487:2014	Test code for suspended ceilings - Sound absorption						
	Estimation of acoustic performance of building from the						
•	erformance of elements						
EN ISO 12354-1:2017	Part 1: Airborne sound insulation between rooms						
EN ISO 12354-2:2017	Part 2: Impact sound insulation between rooms						
EN ISO 12354-3:2017	Part 3: Airborne sound insulation against outdoor sound						
EN ISO 12354-4:2017	Part 4: Transmission of indoor sound to the outside						
EN 12354-5:2023	Part 5: Sounds levels due to the service equipment						
EN 12354-6:2003	Part 6: Sound absorption in enclosed spaces						
Sound-	scattering properties of surfaces						
ISO 17497-1:2004	Part 1: Measurement of the random-incidence scattering coefficient in a reverberation room (2014: amended)						
ISO 17497-2:2012	Part 2: Measurement of the directional diffusion coefficient in a free field						
Various acoustics							
EN ISO 11654:1997	Sound absorbers for use in buildings - Rating of sound absorption						
EN ISO 18233:2006	Application of new measurement methods in building and room acoustics						
ISO 20189:2018	Screens, furniture and single objects intended for interior use - Rating of sound absorption and sound reduction of elements based on laboratory measurements						
ISO 23591:2021	Acoustic quality criteria for music rehearsal rooms and spaces						
ISO/TS 19488:2021	Acoustic classification of dwellings						
Technical reports							
CEN/TR 15226:2006	Building products - Treatment of acoustics in product technical specifications						
CEN/TR 16961:2018	Declaration of uncertainties in test reports						
Performance criteria for residential buildings							
ILNAS 103-1:2022	Critères de performance pour les bâtiments d'habitation						



