

ISO 10848-1:2006-04 (E)

Acoustics - Laboratory measurement of the flanking transmission of airborne and impact sound between adjoining rooms - Part 1: Final document

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Quantities to characterize flanking transmission	6
4.1	General	6
4.2	Normalized flanking level difference $D_{n,f}$ and normalised flanking impact sound pressure level $L_{n,f}$	6
4.3	Vibration reduction index, K_{ij}	6
4.4	Selection of the principle of measurement	8
5	Measuring equipment	9
6	General requirements for test specimens and test rooms	9
7	Measurement methods	10
7.1	Measurement of $D_{n,f}$ and $L_{n,f}$	10
7.2	Measurement of the vibration reduction index with structure-borne excitation	12
7.3	Measurement of the structural reverberation time	15
7.4	Measurement of the vibration reduction index with airborne excitation	16
7.5	Frequency range of measurement	17
8	Influences from the structures of the test facility	17
8.1	Criterion to verify flanking transmissions through constructions of the test facility	17
8.2	Conventional limit for light elements compared with the surrounding elements of the test facility	18
8.3	Verification procedure for a light flanking element that is structurally independent of a separating element	18
9	Shielding	18
Annex A (normative) Single-number rating of the vibration reduction index		24
Bibliography		25