

DIN EN ISO 10848-5:2021-01 (E)

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)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Instrumentation	9
5	Test arrangement	9
6	Measurement methods	9
6.1	General	9
6.2	Measurement of L_a	10
6.2.1	Generation of sound field in the source room	10
6.2.2	Measurement of the average sound pressure level in the receiving room	10
6.2.3	Measurement of reverberation time of the room and evaluation of the equivalent sound absorption area	10
6.2.4	Measurement of the average velocity level of the element	10
6.2.5	Calculation of the radiation index	10
6.3	Measurement of L_s	10
6.3.1	Generation of vibration on the source element	10
6.3.2	Procedure for Type A and Type B elements	10
6.3.3	Measurement using stationary excitation	11
6.3.4	Measurement using transient excitation	11
6.3.5	Measurement of reverberation time and evaluation of the equivalent sound absorption area	11
6.3.6	Radiation index calculation	11
7	Precision	11
8	Expression of results	11
9	Test report	12
Annex A (informative) Measurement of radiation efficiency using sound intensity		13
Bibliography		15