

Acoustic Requirements



JOHN C WILKINS
Acoustic Supplies

Approved Document E 2003 (England and Wales)

Dwelling-houses and flats - Performance standards for separating walls, separating floors and stairs that have a separating function.

New Build	Airborne Sound Insulation D _{nt,w} + C _{tr} dB (minimum values)	Impact Sound Insulation L' _{nt,w} dB (maximum values)
Walls	45	
Floors and stairs	45	62
Material Change of Use		
Walls	43	
Floors and stairs	43	64

Rooms for residential purposes - Performance standards for separating walls, separating floors and stairs that have a separating function.

New Build	Airborne Sound Insulation D _{nt,w} + C _{tr} dB (minimum values)	Impact Sound Insulation L' _{nt,w} dB (maximum values)
Walls	43	
Floors and stairs	43	62
Material Change of Use		
Walls	43	
Floors and stairs	43	64

Laboratory values for new internal walls and floors within dwelling-houses, flats and rooms for residential purposes, whether purpose built or formed by material change of use.

New Build	Airborne Sound Insulation
Walls	40
Floors and stairs	40

Methods of Compliance

Compliance with Approved Document E can be shown by Pre-Completion Testing or site registration with Robust Details Ltd.

Pre-Completion Testing

Sound insulation testing, to show compliance with the relevant performance standards should be conducted in accordance with:
BS EN ISO 140-4:1998 (airborne)
BS EN ISO 140-7:1998 (impact)

Robust Details

Robust Details are high performance separating wall and floor constructions that are expected to be sufficiently reliable not to need the check provided by Pre-Completion Testing.

More information at:
www.robustdetails.com

Section 5 (Scotland)

Performance standards

Airborne Sound Insulation	Mean value D _{nt,w} dB (minimum)	Individual value
Walls	53	49
Floors and stairs	52	48

Impact Sound Insulation	Mean value L' _{nt,w} dB (maximum)	Individual value L' _{nt,w} dB (maximum)
Floors	61	65

Methods of Compliance

Compliance with Approved Document E can be shown by Pre-Completion Testing or site registration with Robust Details Ltd.

Specified Constructions

Standard Constructions that are listed in Section 5 of the Scottish Technical Handbooks.

Performance Testing

Sound insulation testing to show compliance with the relevant performance standards should be conducted in accordance with:
BS EN ISO 140-4:1998 (airborne)
BS EN ISO 140-7:1998 (impact)

For further details or if in doubt that a floor construction will meet Building Regulations, please call John C Wilkins Acoustic Supplies on 01204 548400

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