

Irish Regulations

Part E of the Second Schedule to the Irish Building Regulations 1997 requires that all dwellings be designed and constructed in such a way that the transmission of both airborne and impact sound noise between separating walls and floors be limited to a level that will not threaten the health of the occupants or inconvenience them in the course of normal domestic activities.

Performance Standards

Tests of performance values of individual and 4 and 8 pairs of rooms.

Irish Building Regulations Part E – Sound Transmission Values (Mean)

	Individual Value	Mean Value (4 Pair rooms)	Mean Value (8 Pair rooms)
Airborne Sound			
Walls (min values)	49dB	53dB	52dB
Separating floors between rooms (max values)	48dB	52dB	51dB
Impact Sound			
Floors (max values)	65dB	61dB	62dB

Airborne sound – weighted standardised level difference (DnT,w)

Impact sound – weighted standardised sound pressure level (L'nT,w)



Acoustic Parameters

Performance values are given in terms of two acoustic parameters, one related to airborne sound, the other related to impact sound.

General Application

When determining how the guidance for resistance to transmission of sound applies to types of dwelling configurations, recognition should be given to the following:

Airborne Sound E1

- **Walls** – a wall which separates a dwelling from another dwelling or from another building, or separates a habitable room within a dwelling from another part of the same building which is not used exclusively with the dwelling, shall have reasonable resistance to airborne sound.
- **Floors** – a floor which separates a dwelling from another dwelling, or from another part of the same building which is not used exclusively with the dwelling, shall have reasonable resistance to airborne sound.

Impact Sound E1

- **Floors** – a floor above a dwelling which separates it from another dwelling or from another part of the same building which is not used exclusively with the dwelling, shall have reasonable resistance to impact sound.

Both the above do not apply to a wall or floor which separates a dwelling from another part of the same building if such part is used only occasionally for the inspection, maintenance or repair of the building, or of its services, fixed plant or machinery.

All Monarfloor® products and systems comply with Part E (Sound) of the Irish Building Regulations.

Icopal Limited

Barton Dock Road, Stretford, Manchester M32 0YL
Telephone: 0161 866 6540 Fax: 0161 866 6527
Email: acoustics.uk@icopal.com

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For **FREE** technical advice on acoustic systems and solutions call **0161 866 6540** or visit **www.monarfloor.co.uk**

