

Methods for

Rating the sound insulation in buildings and of building elements —

Part 3: Method for rating the
airborne sound insulation of
façade elements and façades —

[ISO title: Acoustics — Rating
of sound insulation in buildings
and of building elements —
Part 3: Airborne sound insulation
of facade elements and façades]

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Environment and Pollution Standards Committee (EPC/-) to Technical Committee EPC/1 upon which the following bodies were represented:

- Association of Consulting Engineers

BEAMA Transmission and Distribution Association

British Broadcasting Corporation

British Occupational Hygiene Society

British Telecommunications

Department of Health and Social Security

Department of the Environment (Building Research Establishment)

Department of Trade and Industry (National Physical Laboratory)

Health and Safety Executive

Incorporated Association of Architects and Surveyors
- Institute of Acoustics

Institute of Occupational Hygienists

Institute of Physics

Institute of Sound and Vibration Research

Institution of Electronic and Radio Engineers

Institution of Municipal Engineers

Petroleum Industry Association

Royal Institute of British Architects

Society of Environmental Engineers

Coopted members

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Aggregate Concrete Block Association

Association of Building Component Manufacturers Ltd.

Autoclaved Aerated Concrete Products Association

Brick Development Association

British Ceramic Research Association

Cement Makers' Federation
- Concrete Society

Gypsum Products Development Association

Hevac Association

National Brassfoundry Association

Structural Insulation Association

Suspended Ceilings Association

Timber Research and Development Association

This British Standard, having been prepared under the direction of the Environment and Pollution Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 December 1984

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National foreword

This Part of BS 5821 has been prepared under the direction of the Environment and Pollution Standards Committee and is identical with ISO 717/3-1982 “Acoustics — Rating of sound insulation in buildings and of building elements — Part 3: Airborne sound insulation of façade elements and façades” prepared by Technical Committee 43, Acoustics, with the active participation and approval of the UK and published by the International Organization for Standardization (ISO).

ISO 717/1 and ISO 717/2 are also being published as Parts of BS 5821, which now comprises the following Parts:

- Part 1: Method for rating the airborne sound insulation in buildings and of interior building elements;
- Part 2: Method for rating the impact sound insulation;
- Part 3: Method for rating the airborne sound insulation of façade elements and façades.

Terminology and conventions. The text of the international standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “this part of ISO 717” appear, referring to this standard, they should be read as “this Part of BS 5821”.

Cross-references

International standard	Corresponding British Standard
	BS 2750 Methods of measurement of sound insulation in buildings and of building elements
ISO 140/3-1978	Part 3:1980 Laboratory measurements of airborne sound insulation of building elements (Identical)
ISO 140/5-1978	Part 5:1980 Field measurements of airborne sound insulation of façade elements and façades (Identical)
ISO 717/1-1982	BS 5821 Methods for rating the sound insulation in buildings and of building elements Part 1:1984 Method for rating the airborne sound insulation in buildings and of interior building elements (Identical)

Additional information. The use of the word “standardized” in Table 2 indicates values obtained from field measurements that have been corrected to a receiving room reverberation time of 0.5 s (see BS 2750-4:1980 “Field measurements of airborne sound insulation between rooms” and BS 2750-7:1980 “Field measurements of impact sound insulation of floors”).

For guidance on the interpretation of differences between laboratory and field measurements, see CP 3 “Code of basic data for the design of buildings” Chapter III:1972 “Sound insulation and noise reduction”¹⁾.

¹⁾ In course of revision.