

Acoustics

Measurement of sound insulation in buildings and of building elements

Part 9: Laboratory measurement of room-to-room airborne sound insulation of a suspended ceiling with a plenum above it

The European Standard EN 20140-9:1993 has the status of a British Standard

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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:

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- British Broadcasting Corporation
- British Occupational Hygiene Society
- British Telecommunications plc
- Department of Health and Social Security
- Department of the Environment (Building Research Establishment)
- Department of Trade and Industry (Air Division)
- Department of Trade and Industry (National Physical Laboratory)
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- Institution of Civil Engineers
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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
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- British Ceramic Research Association
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- 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 27 February 1987

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National foreword

This Part of BS 2750 has been prepared under the direction of the Environment and Pollution Standards Committee. It is identical with ISO 140-9:1985 *Acoustics Measurements of sound insulation in buildings and of building elements Part 9: Laboratory measurement of room-to-room airborne sound insulation of a suspended ceiling with a plenum above it*, published by the International Organization for Standardization (ISO). ISO 140-9 was prepared by subcommittee 2, Building acoustics, of ISO Technical Committee 43, Acoustics, with the active participation and approval of the UK. The aspects of sound insulation covered by ISO 140-9:1985 were not included in BS 2750:1956. In 1993 the European Committee for Standardization (CEN) accepted ISO 140-9:1985 as European Standard EN 20140-9:1993. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 20140-9 and any reference to BS 2750-9 should be read as a reference to BS EN 20140-9.

The following Parts of BS 2750 have already been published.

- Part 1: Recommendations for laboratories;*
- Part 2: Statement of precision requirements;*
- Part 3: Laboratory measurements of airborne sound insulation of building elements;*
- Part 4: Field measurements of airborne sound insulation between rooms;*
- Part 5: Field measurements of airborne sound insulation of façade elements and façades;*
- Part 6: Laboratory measurements of impact sound insulation of floors;*
- Part 7: Field measurements of impact sound insulation of floors;*
- Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a standard floor.*

Further Parts of this British Standard will be prepared, if required.

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 *part of ISO 140* appear, referring to this standard, they should be read as *Part of BS 2750*.

Additional information. It should be noted, in referring to the figure, that the dimensions stated are given by way of example only and are not intended to be limiting.

Cross-references

International Standards	Corresponding British Standards
	BS 2750 <i>Methods of measurement of sound insulation in buildings and of building elements</i>
ISO 140-2:1978	Part 2:1980 <i>Statement of precision requirements</i> (Identical)
ISO 354:1985	BS 3638:1987 <i>Method for measurement of sound absorption in a reverberation room</i> (Identical)
ISO 717-1:1982	BS 5821 <i>Methods for rating the sound insulation in buildings and of building elements</i> Part 1:1984 <i>Method for rating the airborne sound insulation in buildings and for interior building elements</i> (Identical)

IEC 225:1966

BS 2475:1964 *Octave and one-third octave band-pass filters*

(Technically equivalent)

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.