

Methods of

Measurement of sound insulation in buildings and of building elements —

Part 6: Laboratory measurements of impact sound insulation of floors —

[ISO title: Acoustics — Measurement of sound insulation in buildings and of building elements —

Part VI: Laboratory measurements of impact sound insulation of floors]

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Cooperating organizations

The Environment and Pollution Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

Association of County Councils	Electricity Supply Industry in England and Wales
British Gas Corporation	Engineering Equipment Users' Association*
British Railways Board	Greater London Council
British Steel Industry	Health and Safety Executive*
Chemical Industries Association	Institute of Petroleum
Chemical Society	Medical Research Council*
Confederation of British Industry	Ministry of Agriculture, Fisheries and Food*
Consumer Standards Advisory Committee of BSI	National Coal Board
Council of Engineering Institutions	National Consumers' Council
Department of Energy (Energy Technology)	National Water Council
Department of the Environment	Scottish Office
Department of Industry (Warren Spring Laboratory)	Society of Chemical Industry
	Trades Union Congress

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

Association of Building Component Manufacturers Ltd.	Gypsum Products Development Association
Association of Consulting Engineers	Hevac Association
Autoclave Aerated Concrete Products Association	Incorporated Association of Architects and Surveyors
Brick Development Association	Institute of Acoustics
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British Precast Concrete Federation Ltd.	Institute of Sound and Vibration Research
Cement Makers' Federation	Institution of Electronic and Radio Engineers
Cinematograph Exhibitors' Association of Great Britain and Ireland	Institution of Mechanical Engineers
Concrete Society Ltd.	Institution of Municipal Engineers
Department of Education and Science	National Brassfoundry Association
Department of the Environment (Building Research Establishment)	Post Office
Department of Health and Social Security	Royal Institute of British Architects
Department of Industry (National Physical Laboratory)	Structural Insulation Association
Electronic Components Industry Federation	Suspended Ceilings Association
	The Transmission and Distribution Association (BEAMA)
	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 Executive Board and comes into effect on 30 June 1980

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The following BSI references relate to the work on this standard:
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National foreword

BS 2750 was first published in 1956 with the title “Recommendations for field and laboratory measurement of airborne and impact sound transmission in buildings”.

This Part of this British Standard has been prepared under the direction of the Environment and Pollution Standards Committee and is identical with ISO 140/VI-1978 “Acoustics — Measurement of sound insulation in buildings and of building elements — Part VI: Laboratory measurements of impact sound insulation of floors”, prepared by subcommittee 2, Building Acoustics, of ISO technical committee 43, Acoustics, and published by the International Organization for Standardization (ISO).

Differences between BS 2750:1956 and this Part of this edition include a restriction in the sound source from one or more loudspeakers to a single loudspeaker enclosure of maximum dimension 0.7 m, a change in the sound source from warble or white noise to a steady continuous spectrum, and the introduction of the option to use octave bands as well as 1/3 octaves for the measurement frequencies.

The minimum number of tapping machine positions has been increased from two to four, and their location on the test floor has been more clearly specified. The option of rubber-coated hammer heads has also been introduced.

With Part 1 to part 5 inclusive and part 7 and part 8, this edition supersedes BS 2750:1956, which is therefore withdrawn.

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

The comma has been used throughout 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 “International Standard” appear, they should be read as “British Standard”.

Cross-references

International standard	Corresponding British Standard
ISO 140/I-1978	BS 2750 Methods of measurement of sound insulation in buildings and of building elements Part 1:1980 Recommendations for laboratories (Identical)
ISO 140/II-1978	BS 2750 Methods of measurement of sound insulation in buildings and of building elements Part 2:1980 Statement of precision requirements (Identical)
ISO 140/VII-1978	BS 2750 Methods of measurement of sound insulation in buildings and of building elements Part 7:1980 Field measurements of impact sound insulation of floors (Identical)
ISO 140/VIII-1978	BS 2750 Methods of measurement of sound insulation in buildings and of building elements Part 8:1980 Laboratory measurements of the reduction of transmitted noise by floor coverings on a standard floor (Identical)
ISO/R 354-1973	BS 3638:1963 Method for the measurement of sound absorption coefficients (ISO) in a reverberation room (Technically equivalent)

IEC 179:1973 (subclause 8.2)	BS 4197:1967 A precision sound level meter (subclause 7.2) (Identical)
IEC 225:1966	BS 2475:1964 Octave and one-third octave band-pass filters (Technically equivalent)

At present there is no British Standard equivalent to ISO/R 717-1968 (referred to in clause 9) but the information required is contained in BS 5821:1980 "Method for rating sound insulation in buildings and of building elements" which is based on the revision of ISO/R 717 currently under discussion in ISO/TC 43/SC 2 and expected to be published in due course as ISO 717.

The reference in Annex B to ISO 1683¹⁾ is of an informative nature only and the lack of an equivalent British Standard at present therefore does not affect the validity of this standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 6, 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.

¹⁾ In course of preparation.