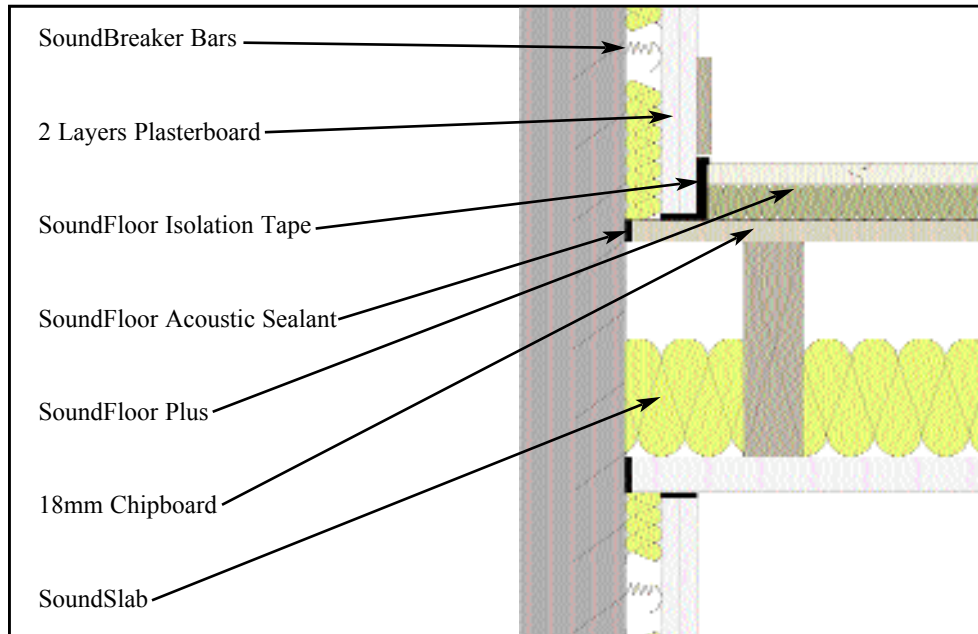


SoundFloor Plus

Description

SoundFloor Plus is a high performance acoustic overlay flooring product suitable for use on new and existing timber and concrete floors. It comprises an upper face of tongue and groove dense cement particle board with a high density mineral fibre slab on the underside.



SoundFloor Plus is 48mm thick and is designed to damp vibration and attenuate both airborne sound and impact noise passing through floors. It is particularly effective at damping low frequency sound in recording studios and music and rehearsal rooms.

SoundFloor Plus can be used throughout the building, including kitchens and bathrooms.

Application

SoundFloor Plus is used extensively in recording studios, music and rehearsal rooms, in the refurbishment and conversion of existing buildings, and in all manner of new build projects by those looking to exceed minimum Building Regulation requirements.

Technical Advice and Acoustic Testing

Highly qualified and experienced building and acoustic engineers are available to discuss all aspects of acoustic performance requirements and can prepare specifications and effective installation instructions to ensure optimum performance is achieved. They can also undertake pre- and post-installation testing for airborne and impact sound insulation, if required. Further details are available on request.

Operating Temperature

SoundFloor Plus is suitable for use at normal building temperatures.

Fire Performance

SoundFloor Plus will not add significantly to any existing fire hazard when properly installed.

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Dimensions and Weight

| Reduc | Installed Thickness mm | Overall Board Dimensions Excluding Lap Joint | Laid Area per Board Allowing for Lap Joint | Weight | |
|-------|------------------------|--|--|--------------------|-----------|
| | | | | Per m ² | Per Board |
| Plus | 48 | 1200mm x 600mm | 0.72m ² | 29.2kg | 21kg |

Building Regulation Requirements

Building Regulations Approved Document E (England and Wales) and Building (Scotland) Regulations Section 5 call for the following standards to be achieved for all timber and concrete floors:

| Building Regulations Approved Document E (England and Wales) 2003 | Airborne Sound | | Impact Sound |
|---|---|--------------------------|---------------------------------|
| | Site Test Result $D_{nT,w} + C_{tr}$ dB | Lab Test Result R_w dB | Site Test Result $L'_{nT,w}$ dB |
| Separating Floors - Conversions | 43 or greater | n/a | 64 or less |
| Separating Floors - New Build | 45 or greater | n/a | 62 or less |
| Internal Floors - Conversions and New Build | n/a | 40 or greater | n/a |

| Building (Scotland) Regulations 2004 Section 5 | Airborne Sound | Impact Sound |
|--|----------------|----------------|
| | $D_{nT,w}$ dB | $L'_{nT,w}$ dB |
| New Build and Conversions | 52 or greater | 61 or less |

Acoustic Performance

Detailed below are acoustic test results for a typical timber floor construction. Performance data for other floor constructions together with more detailed technical advice is available on request.

| Typical Floor Construction | Airborne Sound | | | Impact Sound |
|---|--------------------------------|---|--------------------------|---------------------------------|
| | Site Test Result $D_{nT,w}$ dB | Site Test Result $D_{nT,w} + C_{tr}$ dB | Lab Test Result R_w dB | Site Test Result $L'_{nT,w}$ dB |
| SoundFloor Plus overlaid onto 18mm chipboard with 100mm SoundSlab fitted between 50mm x 225mm timber joists at 400mm centres and 2 layers of 12.5mm plasterboard on the underside to form the ceiling | 54 | 46 | *60 | 61 |
| As above incorporating SoundBreaker Bars to de-couple the ceiling below | 59 | 52 | *65 | 52 |

* The R_w figures quoted above apply to domestic applications only. Details for commercial applications are available on request.

Flanking Transmission

The performance figures quoted above are based on test results for timber floors and can only be expected if the building design and construction has followed good practice to ensure all potential flanking paths have been eliminated. In order for wall and floor constructions to be fully effective, extreme care should be taken to correctly detail the junctions between the separating wall or floor and the associated elements such as external walls and any penetrations. If junctions are incorrectly detailed, the acoustic performance will be limited and Building Regulation requirements may not be achieved in practice.

Packaging and Handling

SoundFloor Plus boards are packed on non-returnable pallets. Boards should be stored inside and under cover in a dry, well-ventilated area and should be laid flat and kept off the ground. Extreme care should be taken when handling to avoid damage.

Application and Fixing

- See separate sheet.

Availability

SoundFloor Plus, SoundSlab, SoundBreaker Bars, SoundFloor Joint Adhesive, SoundFloor Isolation tape and SoundFloor Acoustic Sealant are available through a national network of stockists, distributors and builders merchants. Further details available on request.

For Further Information

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