

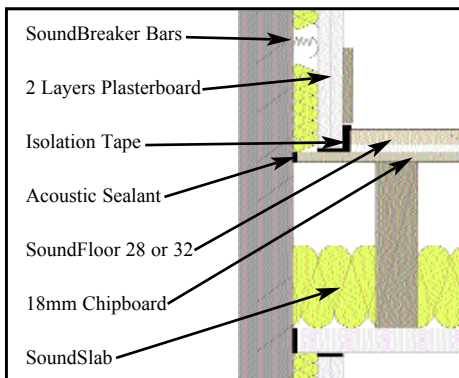
## Acoustic Floating Floor System



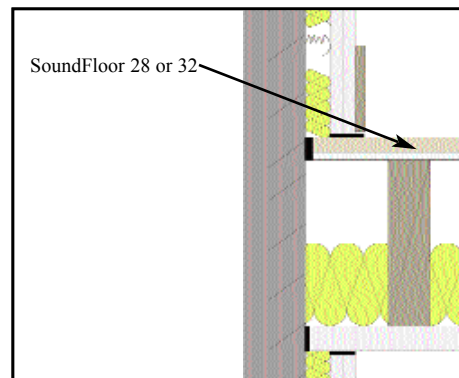
### Soundfloor 28/32

**SoundFloor 28 and 32** are structural or overlay acoustic flooring products. They are suitable for laying directly onto existing timber and concrete floors, or can be fitted as part of a cradle and batten system on concrete floors where there is a requirement for a service void. They comprise an upper face of moisture-resistant, tongue and grooved chipboard with an acoustic felt on the underside.

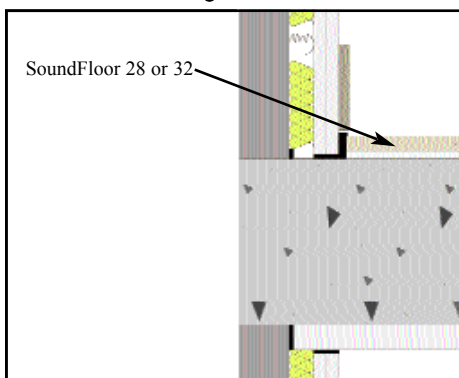
**Overlaid onto existing timber floor**



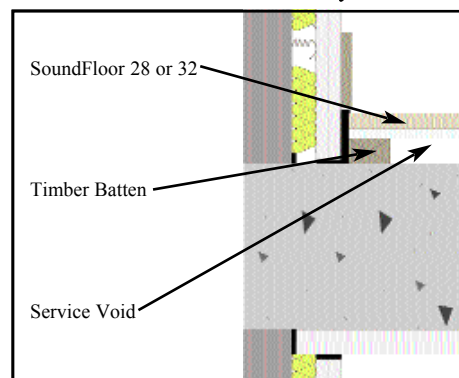
**Laid directly onto joists as a structural floor**



**Overlaid onto 365kg/m<sup>2</sup> concrete floor**



**Laid over a cradle and batten system**



**SoundFloor 28 and 32** are 28mm and 32mm thick respectively. Both products are designed to damp vibration and attenuate airborne sound and impact noise passing through floors. **SoundFloor 28** is suitable for use as a structural floor on joists up to 450mm centres and **SoundFloor 32** is suitable for use on joists at up to 600mm centres. **SoundFloor 28 and 32** can be used throughout the building, including kitchens and bathrooms.

## Application

**SoundFloor 28 and 32** are used extensively in the refurbishment and conversion of existing buildings into apartments, and in all manner of new build projects particularly where there is a requirement to comply with Building Regulations.

## 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 28 and 32** are suitable for use at normal building temperatures.

## Fire Performance

**SoundFloor 28 and 32** will not add significantly to any existing fire hazard when properly installed.

## Dimensions and Weight

SoundFloor	Installed Thickness mm	Overall Board Dimensions Excluding Lap Joint	Laid Area per Board Allowing for Lap Joint	Weight	
				Per m <sup>2</sup>	Per Board
28	28	2400mm x 600mm	1.44m <sup>2</sup>	13.3kg	19.2kg
32	32	2400mm x 600mm	1.44m <sup>2</sup>	16.7kg	24.0kg

## 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 and Type 1 concrete 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
<b>SoundFloor 28 and 32</b> overlaid onto 18mm chipboard with 100mm <b>SoundSlab</b> fitted between 50mm x 225mm timber joists at 400mm centres and 2 layers of 12.5mm plasterboard on the underside to form the ceiling	49	42	*55	62
As above incorporating <b>SoundBreaker Bars</b> to de-couple the ceiling below	54	47	*60	54
<b>SoundFloor 28 and 32</b> on 365kg/m <sup>2</sup> concrete floor with plaster skim ceiling provides a Weighted Improvement ( $L_w$ ) of 19dB compared with Building Regulations minimum requirement of 17dB.				

\* 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 and concrete 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 28 and 32** boards are packed on non-returnable pallets. Boards should be stored inside and under cover in a dry, well-ventilated area. They 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.