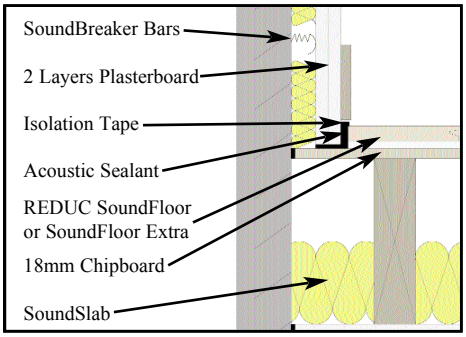
REDUC SoundFloor & SoundFloor Extra

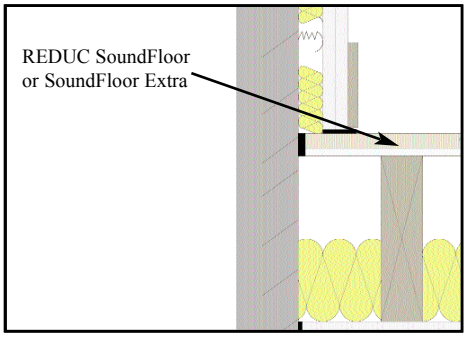
Description

REDUC SoundFloor and SoundFloor Extra 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.

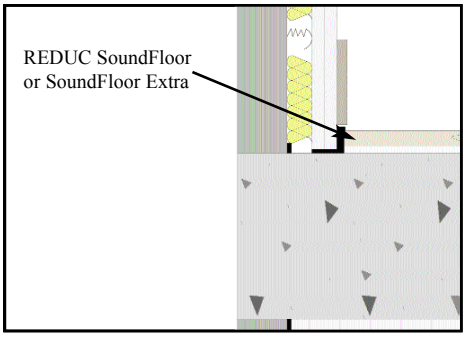
Overlaid onto existing timber floor



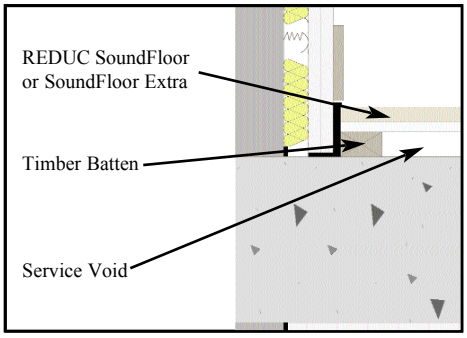
Laid directly onto joists as a structural floor



Overlaid onto 365kg/m² concrete floor



Laid over a cradle and batten system



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

Application

REDUC SoundFloor and SoundFloor Extra 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

REDUC SoundFloor and SoundFloor Extra are suitable for use at normal building temperatures.

Fire Performance

REDUC SoundFloor and SoundFloor Extra will not add significantly to any existing fire hazard when properly installed.

Environmental Consideration

Ensuring sustainability has always been a key factor in the development of **REDUC** acoustic flooring. The substrate layer of chipboard is manufactured using 70% recycled responsibly sourced timber accredited by the FSC (forestry Stewardship Council). The resilient layer of acoustic felt is fully recyclable and is manufactured from 80% recycled polyester fibres.

H&H Group Ltd

Data Sheet
2011 Issue 06

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H&H Group Ltd

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
SoundFloor	28	2400mm x 600mm	1.44m²	13.3kg	19.2kg
SoundFloor Extra	32	2400mm x 600mm	1.44m²	16.7kg	24.0kg

Building Regulation Requirements

Building Regulations Approved Document E (England and Wales) and Building (Scotland) Regulations Technical Handbook 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) Amendment Regulations 2010 Technical Handbook Section 5	Airborne Sound		Impact Sound
	Site Test Result $D_{nT,w}$ dB	Lab Test Result R_w dB	Site Test Result $L'_{nT,w}$ dB
New build and Conversions	56 or greater	n/a	56 or less
Conversions of Traditional Buildings	53 or greater	n/a	58 or less
Internal Floors - Conversions and New	n/a	43 or greater	n/a

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	LabTest Result R_w dB	Site Test Result $L'_{nT,w}$ dB
REDUC SoundFloor and SoundFloor Extra 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	49	42	*55	62
As above incorporating **SoundBreaker Bars** to de-couple the ceiling below	54	47	*60	54
REDUC SoundFloor and SoundFloor Extra on 365kg/m² concrete floor with plaster skim ceiling provides a Weighted Improvement (ΔLw) of 19dB compared with Building Regulations minimum requirement of 17dB.				

* The Rw 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

REDUC SoundFloor and SoundFloor Extra 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.

Availability

REDUC SoundFloor and SoundFloor Extra, SoundSlab, SoundBreaker Bars, Joint Adhesive, Isolation tape and **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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