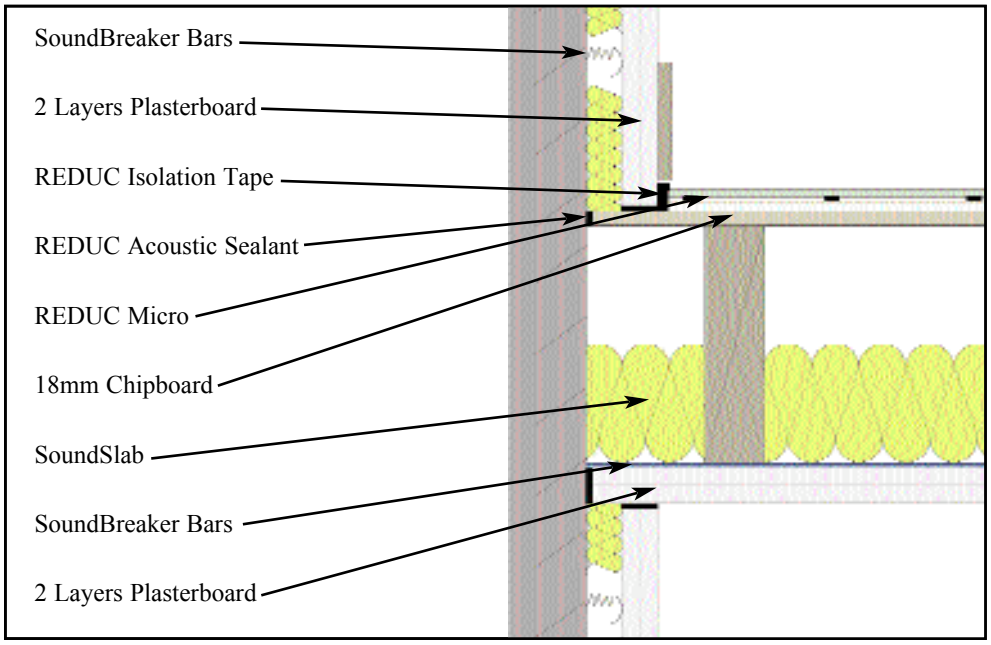
REDUC Micro

Description

REDUC Micro is an acoustic overlay flooring product suitable for use on new and existing timber and concrete floors. The substrate layers of moisture-resistant MDF and fibreboard are separated by visco-elastic sound damping strips. The underside incorporates a resilient layer of acoustic felt, which provides mechanical isolation from the existing floor structure.



REDUC Micro is 17mm thick and is designed to damp vibration and attenuate both airborne sound and impact noise passing through floors with minimum loss in room height.

The moisture-resistant upper surface means **REDUC Micro** can be used throughout the building, including kitchens and bathrooms, whilst the acoustic felt on the underside will contour over minor irregularities in the surface of the floor being treated.

Application

REDUC Micro is used extensively to upgrade separating floors when converting existing buildings into apartments 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 Micro is suitable for use at normal building temperatures.

Fire Performance

REDUC Micro 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 upper substrate layer of MDF is manufactured using 70% recycled responsibly sourced timber accredited by the FSC (forestry Stewardship Council). The lower layer of fibreboard is endorsed by the PEFC (Programme for the Endorsement of Forect Certification). 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 07

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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
Micro	17	1175mm x 575mm	0.675m^2	9.1kg	6.5kg

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 Micro overlaid onto 18mm chipboard with 100mm **SoundSlab** fitted between 50mm x 225mm timber joists at 400mm centres and 2 layers of 12.5mm plasterboard to the underside to form the ceiling	51	43	*57	58
As above incorporating **SoundBreaker Bars** to de-couple the ceiling below	57	50	*63	50
REDUC Micro overlaid onto 22mm timber floorboards with 100mm **SoundSlab** between timber joists and 30mm lath and plaster ceiling in good condition or single layer plasterboard.	51	43	*57	58
REDUC Micro on 365kg/m^2 concrete floor with plaster skim ceiling provides a Weighted Improvement (ΔLw) of 22dB 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 Micro boards are packed in non-returnable cardboard cartons on non-returnable pallets. Boards should be stored inside and under cover in a dry, well-ventilated area. Cartons 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 Micro, 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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