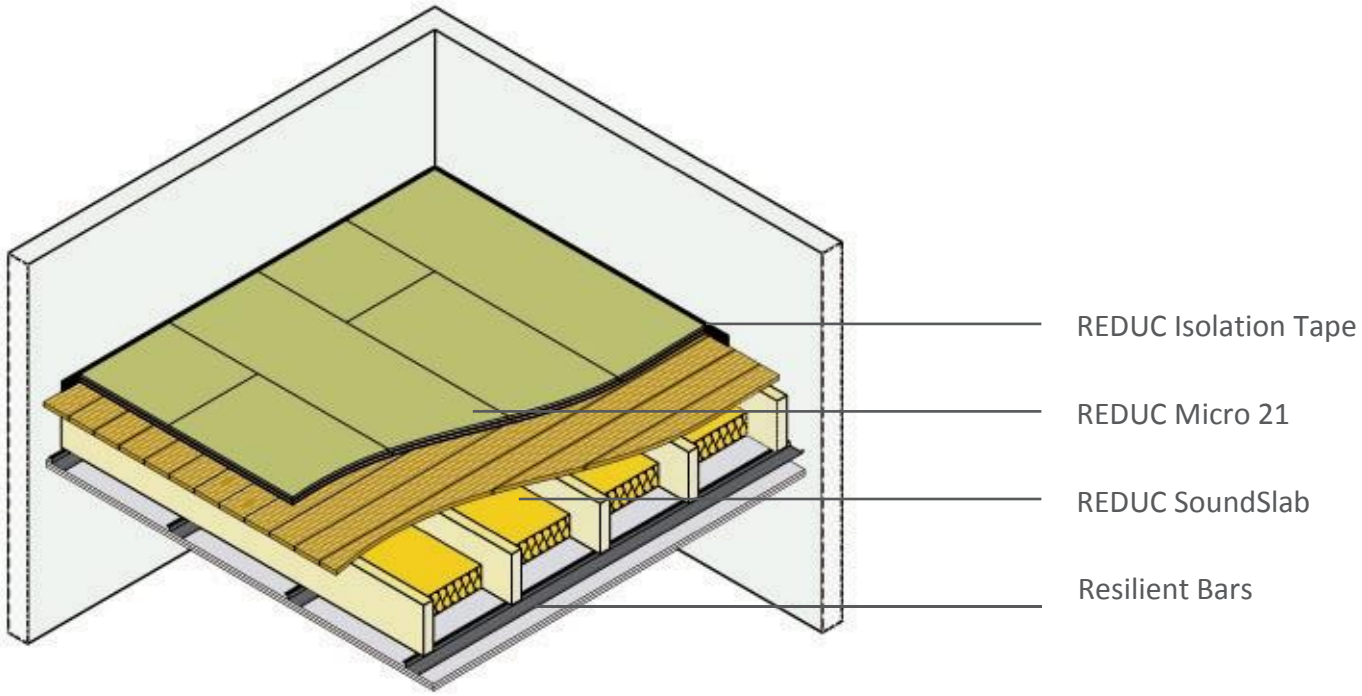
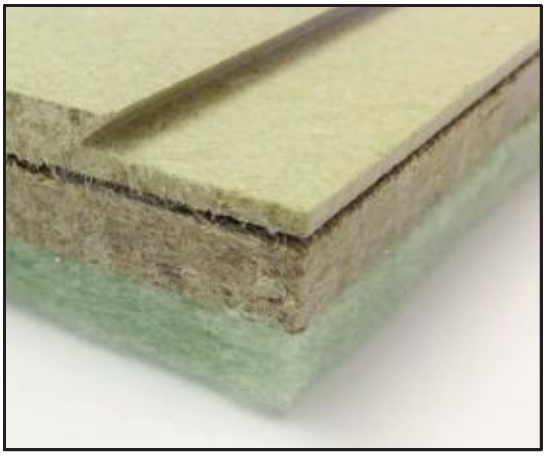


REDUC® Micro 21

Acoustic overlay flooring product suitable for use on new and existing timber floors. The substrate layers of moisture-resistant MDF and cement particle board 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 21 is 21mm thick and is designed to damp vibration and attenuate both airborne sound and impact noise passing through floors whilst having minimal impact upon room height.



Key Features and Benefits

- Extremely thin, high performance acoustic flooring
- Excellent impact and airborne noise reduction
- Ideal for conversion, refurbishment and new build projects
- Ideal for use where floor to ceiling height is limited
- Can be used in kitchens and bathrooms
- Quick and easy to install
- Provided with full technical back up

REDUC® Micro 21

Applications

- Flats and apartments
- Hotels and hostels
- Sheltered housing
- Social housing
- Nursing and care homes
- Student accommodation

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% 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.

Operating Temperature

Suitable for use at normal building temperatures.

Fire Performance

REDUC® Micro 21 will not add significantly to any existing fire hazard when properly installed.

Acoustic Performance

Technical Advice

It is recommended that all individual projects are discussed with H&H Acoustic Technologies. A team of highly qualified technical engineers and acoustic consultants are available to offer assistance and advice to clients, architects and contractors on all aspects of noise control to ensure design specifications and acoustic performance requirements are achieved. They can also undertake noise surveys and provide details of anticipated reverberation times pre and post installation.

Packaging, Handling and Storage

REDUC® Micro 21 is supplied in packs of two boards in fully recyclable cardboard boxes which in turn are packed onto timber pallets. Cartons should be stored flat and kept indoors in a dry well-ventilated area and care should always be taken when handling boards to avoid damage.

Installation and Fixing

REDUC® Micro 21 is laid as a floated floor (no fixings) onto a flat supporting deck. All board joints must be fully bonded using REDUC® Joint Adhesive and all wall edges should be isolated using REDUC® 5mm Isolation Tape. Please consult our website where fitting instructions are available or contact us for more detailed guidance.

Dimensions and Weight

Board Length:	1175mm
Board Width:	575mm
Overall Thickness:	21mm
Area Per Board:	0.675m²
Weight Per Board:	12kg
Weight Per m²	18kg/m²

Floor Construction	Airborne Sound		Impact Sound
	$D_{nT,W}$ dB	$D_{nT,W} + C_{tr}$ dB	$L_{nT,W}$ dB
Approved Document E: REDUC® Micro 21 laid onto 18mm chipboard with 100mm REDUC® SoundSlab continuously between 225mm x 50mm timber joists. Resilient Bars to be directly fixed to the ceiling joists to support 2 layers of 12.5mm acoustic plasterboard (60mins Fire Rated).	58 dB	51 dB	49 dB
Acoustic improvement (where no access to plaster boarded ceiling below) of an existing ceiling with 2 layers of direct fixed 12.5mm plaster board: Fit 100mm REDUC® SoundSlab continuously between the joists and float REDUC® Micro 21 on top of an 18mm chipboard decking.	52 dB	44 dB	57 dB
Acoustic improvement (where no access to Lath & Plaster ceiling below) of an existing 30mm Lath & Plaster ceiling: Fit 100mm REDUC® SoundSlab between the joists and float REDUC® Micro 21 on top of the existing 22mm floorboards.	52 dB	44 dB	57 dB

Flanking Transmission

The performance figures quoted above are based on test results for 225mm timber floors using the components indicated 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 not detailed correctly, the acoustic performance will be limited and Building Regulation requirements may not be achieved in practice.

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