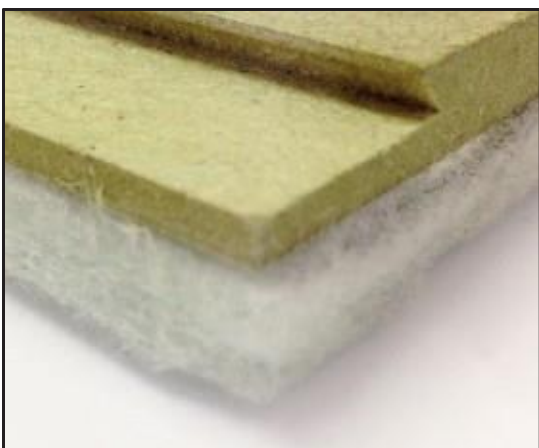


REDUC SoundFloor® 18

Economical and extremely thin acoustic overlay flooring product for use on flat concrete sub-floors. It can also be used for acoustic improvement and refurbishment on flat timber floors. It comprises an upper face of moisture-resistant MDF with an acoustic felt on the underside to provide mechanical isolation from the existing floor structure. Reduc SoundFloor® 18 is 18mm 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

- Exceeds Building Regulations on 365Kg/m² concrete floor
- Minimal floor height build-up.
- High impact sound reduction
- Ideal for acoustic refurbishment of timber floors.
- Good surface for most loose laid floor coverings
- Quick and easy to install
- Provided with full technical back up



REDUC SoundFloor® 18

Applications

- Concrete floors
- Timber floor refurbishment
- 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 SoundFloor® 18 will not add significantly to any existing fire hazard when properly installed.

Acoustic Performance

Floor Construction	Airborne Sound		Impact Sound	
	R _W + C _{tr}	D _{nT,W} + C _{tr}	L _{nT,W}	ΔL _W
<u>Existing Concrete Floor:</u> 365kg/m ² with a plaster skim ceiling overlaid with REDUC SoundFloor® 18 comfortably exceeds the building regulations requirements of 17dB.	-	-	-	23 dB
<u>Existing untreated timber structure:</u> 30mm lath and plaster ceiling in good condition or 2 x 12.5mm plasterboard direct fixed to the ceiling below with 22mm tongue and grooved flooring.	-	35 dB	70 dB	-
<u>Treated timber structure:</u> REDUC SoundFloor® 18 laid onto flat decking with 100mm REDUC® SoundSlab continuously between 225mm x 50mm timber joists. Resilient Bars directly fixed to the ceiling joists to support 2 layers of 12.5mm acoustic plasterboard (60mins Fire Rated). *Indicative	* 50 dB	* 43 dB	* 56 dB	-
<u>Treated timber Structure:</u> overlaid with REDUC SoundFloor® 18 & 100mm SoundSlab between the joists. (without resilient bars) *Indicative	-	* 39 dB	* 64 dB	-

Flanking Transmission

The performance figures quoted above are based on test results for 225mm timber and 365kg/m² concrete 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.

The information contained in this data sheet is believed to be correct at the date of publication. The information is based on our general experience and is given in good faith but because of the many factors outside our knowledge and control which may affect the product no warranty is given or is to be implied with respect to such information. H&H Acoustic Technologies Ltd reserves the right to alter or amend the specification of their products without notice as their policy is one of constant improvement.

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 SoundFloor® 18 is supplied as individual boards packed onto timber pallets. They 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 SoundFloor® 18 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:	18mm
Area Per Board:	0.675m ²
Weight Per Board:	4.73kg
Weight Per m ²	7kg/m ²