



# REDUC<sup>®</sup> Soundslab

Non-combustible, moisture resistant, acoustic slab with a high performance binder. It is designed to improve the acoustic performance of separating floors, ceilings and partition walls by reducing sound transmission through the structure. Soundslab is used as an integral component in the REDUC<sup>®</sup> acoustic flooring systems.

## Key Features and Benefits

- Effective airborne sound absorption
- For floor, ceiling and wall cavities
- Superior sound absorbing coefficients
- Non-combustible - Euroclass A1 fire rating
- Provided with full technical back up
- Versatile and easy to handle, cut and install



## Applications

- Floors, ceilings and walls
- Industrial and commercial partitions

 **Colour** - Greyish Brown

 **Thermal Conductivity** - 0.035 W/mK @ 10°C

 **Operating Temperature**

Continuous operating temperatures up to 250°C and up to 850°C in selected applications. Further details available on request.

 **Fire Performance**

SoundSlab achieves a Euroclass Reaction to Fire Class A1 rating (non-combustible) when tested in accordance with BS EN 13501-1

 **Dimensions and Weight**

Slab Length: 1200mm  
 Slab Width: 600mm  
 Thickness: 100mm  
 Slabs Per Pack: 6  
 Area Per Pack: 4.32m<sup>2</sup>

 **Acoustic Performance**

Detailed below are acoustic test results for SoundSlab as tested at AIRO Laboratories.

Product	Thickness mm	Sound Absorption Coefficient (BS EN ISO 354)					
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
SoundSlab	100	0.53	1.00	1.00	1.00	1.00	1.00

Detailed below are sound reduction values for a typical wall and floor constructions.

Partition Wall Construction	Sound Reduction Value R <sub>w</sub>
2 x 12.5mm plasterboard either side of 100mm studs at 600mm centres with 100mm SoundSlab in the void.	55 dB

Floor Construction/Test Data	Airborne Sound		Impact Sound
	D <sub>nT,W</sub>	D <sub>nT,W</sub> + C <sub>tr</sub>	L <sub>nT,W</sub>
<u>Existing Untreated structure:</u> 30mm lath and plaster ceiling in good condition or single layer of 12.5mm plasterboard direct fixed to the ceiling below with 22mm tongue and grooved flooring.	43 dB	35 dB	70 dB
<u>Treated Structure:</u> improvement to untreated structure using 100mm Soundslab fitted between the timber joists and REDUC® Micro 17 overlaid on the floor boards.	51 dB	43 dB	58 dB
<u>Treated Structure:</u> with REDUC® Micro 21 / 1175 x 575 x 21mm.	52 dB	44 dB	57 dB
<u>Treated Structure:</u> with REDUC® Strata Extra / 1175 x 575 x 35mm.	53 dB	45 dB	56 dB
<u>Treated Structure:</u> with REDUC® Soundmat / 1200 x 1000 x 12mm. *indicative test data	50 dB	43 dB	45 dB
<u>Treated Structure:</u> with REDUC® Foundation 35 / 2400 x 600 x 35mm T&G board laid directly on to the floor joists.	54 dB	46 dB	56 dB

## Flanking Transmission

The acoustic floor performance figures quoted on the data sheet are based on 225mm depth timber joisted floors and the ceiling construction indicated using the components suggested. These performance figures 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

SoundSlab is supplied in clear polythene wrappers. Packs should be stored inside and under cover in a dry, well-ventilated area off the ground. The material is lightweight, easy to handle and can be cut with a long bladed knife.

## Installation and Fixing

For detailed advice on how to use SoundSlab in various applications contact H&H Acoustic Technologies Ltd's Technical Department on 01536 270450.