

# Sound Masking System (*Under-Floor*)

ProductCode: SM-SM-UF

[Note 1]

## Technical Data Sheet

### Product Description

*A unique feature of Sound masking product is under floor sound masking systems. It has developed and refined this specialist technology to ensure the correct penetration and spread of sound.*

A Soundmask system works by generating unobtrusive sound waves. This imperceptibly increases the level of background sound in the space, masking intrusive noise like typing or chatter and ensuring that speech is unintelligible. Soundmask systems come in a range of sizes and modes of operation to suit any space—from residential apartments, where surrounding noise intrudes, to open-plan offices where internal

### **How does an under floor system work?**

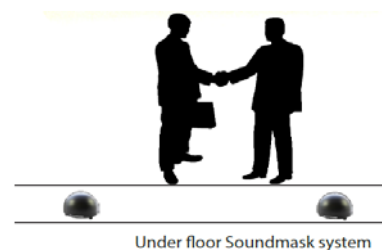
The under floor system is installed below a raised floor using SM-T-2200 transducers. Like a traditional system, the generator and other system components connect to the transducers, which emit unobtrusive soundwaves to mask distracting noise and render speech unintelligible.



### Under Floor System Installation

This concept often makes a suspended ceiling soundmasking system unusable, as all the services are via the under floor access. Further, the new heating and cooling technologies make the work areas very quiet compared with the traditional forced air systems, which creates noise problems requiring soundmasking.

Access floors are generally manufactured from steel and concrete — often from recycled materials — with finishes like laminate, terrazzo, wood, cork, rubber and linoleum. This requires a powerful soundmasking system to penetrate the floor while ensuring the correct spread of sound.



Note 1- This product is supplied/ manufactured by Soundmask Australia Pty Ltd. All material warranty shall be provided by the manufacturer, and limited by the clauses and conditions of warranty.

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Vibration & Noise Control Specialist

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Soundmask's **Random Digital Noise Generators** (model SM-GR-3100), it is a microcontroller controlled digital random noise generator with an effective frequency range of 20Hz to 20kHz. The digitally generated Gaussian noise is passed through a Spectrum Shaper to flatten its response through the midrange, corresponding to human speech frequencies.



**Zone Distributor** (SM-DX-4800) can be used where separate areas have different needs, but the client wants to spare the expense of multiple generators. The unit is a five channel volume control, each channel with separate attenuator. It is a single rack unit designed for convenient installation. Each channel has a maximum loading capability of 200 watts.



**Sound Digital Amplifier** (SM-DA-8000) is connected with Zone Distributor and **Transducers**(SM-T-2200).



### Disclaimer:

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories by the Manufacturer (Soundmask Australia Pty Ltd). They are indicative only of the results obtained in such tests, and should not be considered as guaranteed maximums, minimums or any form of performance. Specification and data are subject to change without notice. Mason Acoustics Limited is not liable for any loss regard to the data and information stated in this literature.

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