

SOUNDEX™

innovative solutions to noise

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17,000 people in the UK suffer from deafness due to excessive noise at work

1000's of noise complaints made every year to local councils from the general public

Approximately 1.7 million workers are exposed to noise above levels considered safe



With the statistics above and the knowledge that 'noise induced hearing loss is defined as irreversible damage to the ear drums' the onus is on Employers in Industry and Construction to reduce or remove the risk of exposure to employees and the general public whilst providing hearing protection when required.

Regulations

The Control of Noise Regulations 2005 places duties on employers to assess the risk to workers and provide appropriate information and training if the noise level reaches 80dB. If it reaches 85dB, employers must provide hearing protection and hearing protection zones.

A noise level of 87dB is the maximum a worker can be exposed to, taking into account any reduction provided by hearing protection.

The Environmental Protection and Control of Pollution Act 1974 makes Local Authority & Environmental Health officers responsible to deal with noise nuisance.

> "We have found the Soundex Acoustic Curtains to be an excellent solution to our noise mitigation needs."

The sound choice...







Soundex is the leading brand in noise control that is fast, simple and effective, and has revolutionised how noise is controlled with its innovative and exciting products, providing the solutions for a diverse range of industries.

With professional knowledge and experience, and product and marketing innovation, Soundex delivers ingenious design solutions to meet ever-evolving customer requirements.

The products epitomise the ethos of Soundex: to provide the right solution for the intended application and to exceed our customers' expectations.



Commercial benefits through the implementation of Soundex

- Available for purchase or hire through approved distributors
- Quick erecting means they're suitable for short and long term requirements
- Enables compliance with HSE regulations at an affordable price
- Enhances public relations and maintains 'Considerate Contractors' image
- Can allow work to continue through quiet time zones
- Opportunity to display your own company name & logo demonstrating your commitment to care for the health of your own employees, the surrounding environment and the general public

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Soundex Acoustic Curtains…
the ORIGINAL, simple, quick and effective noise barrier






The inconvenience, cost implications and practical issues associated with conventional temporary noise barriers have been overcome with the innovative development of Soundex Acoustic Curtains.

'Best practice in noise control' is now a more achievable obligation for management across all industries, due to the quick and easy installation of the Soundex Curtains. Their outstanding noise absorption properties prevent noise being reflected back to the operator, giving additional benefits over conventional methods.

Typical applications include:

- Temporary enclosures for generators, drilling rigs, compressors & noisy processes
- Prevention of noise breakout from utility works in pedestrianised and shopping precinct areas
- Shield houses & offices from construction and demolition site noise
- Reduce noise outbreak from public occasions including music & sporting events





"Reliable and professional."

Product benefits

- Up to 32dB noise reduction with exceptional absorption
- Quick erecting, lightweight & transportable
- Flame retardant & weatherproof
- Velcro connections ensure high acoustic performance
- Can be hung horizontally & vertically
- No irritant internal content, e.g. glass fibre
- Weighted Average Sound Reduction Indicator of 24dB
- Tested to BS EN ISO 140-3:1995/717-1:1997; BS EN ISO 345:2003; EN ISO 11654:1997






Registered Design, Patent Pending



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> “Soundex Acoustic Curtains were an ideal solution and worked very efficiently; we would highly recommend.”

Optimum performance...



The Soundex barrier must always interrupt the line of sight between the source and the receiver and be placed as close as possible to the noise source. [See Fig 1].

The frequency of the noise will have an influence on the performance of the barrier. Lower frequencies produce a longer wavelength [see Fig 2], while higher frequencies will produce shorter wavelengths [see Fig 3] which are easier to mitigate. Soundex curtains have been tested across a wide range of frequencies, and showed a measured reduction of 32dB at high frequency.



Fig 1



Fig 2 low frequency with breaker works



Fig 3 high frequency using a quick cut saw



Diverse industries...



The following industries currently benefit from the implementation of Soundex products...

- **Construction** – Reducing noise complaints and enhancing ‘Considerate Contractors’ Image
- **Utilities** – Reducing noise impact of works to adjacent shops and pedestrians
- **Infrastructure** – Used by London Underground and Network Rail during night-time works to minimise disruption to neighbours, reduce lost shifts due to noise complaints and potentially increase engineering hours
- **Industry** – Reducing noise exposure to those in close proximity to metal forming works, food processing industries, and manufacturing plants etc.

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> “I would recommend the acoustic curtains as I know they work.”

Soundex Acoustic Enclosures...








Control at source is the most effective form of tackling pollution across all industries, whether it's dust, fumes or noise.

Whilst this may not always be practically possible, Soundex Acoustic Enclosures reflect the commitment to our clients to provide a range of noise control solutions that maintain the characteristics of Soundex: products that control noise simply, quickly & effectively.

Although Soundex Acoustic Curtains when suspended from fencing or scaffolding can create an effective noise barrier to pedestrians, fellow workers etc, receptors in the sight line above the noise source can still be exposed, for example, occupants of nearby high rise flats and offices.

The Soundex Acoustic Enclosures help to mitigate this issue by controlling the noise at source, absorbing a large proportion of the noise, and the additional roof option providing additional protection from noise impact to such occupants above.





Typical applications

- Contained, controlled area for concrete block cutting during pedestrianised area re-paving programmes
- Provision of contained cutting area for cutting of steel during Mechanical & Electrical fit out stages of construction
- Mobile Enclosures for floor saw cutting internally and externally
- Breaking out of small areas during water, gas, electrical emergency works on roads and pavements
- Cutting of rail track and breaking out works during night-time maintenance works
- Generators located in sensitive neighbourhoods
- Enclosures for noisy manufacturing processes in Industry

Key Features

- Quick to erect
- Reduce noise outbreak to receptors above the source of noise
- Collapsible and compact for easy manhandling and transportation
- Control noise at source
- Non-conductive options for working in electrical hazardous areas e.g. rail-projects

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Soundex Acoustic Quilts...





When cost and the need for speed in erecting outweigh the benefits of increased acoustic performance, the Soundex Quilts provide the answer.

The Soundex Quilts are 3 times as wide as the curtains and the same height, whilst weighing the same.

Typical applications are very similar to the Soundex Curtains, however when weight loadings are critical ie; hanging off scaffolding, they are an effective alternative to Soundex Curtains.

With eyelets, folding lines and no irritant internal content they carry many of the same unique product features as the Soundex Acoustic Curtains. The only significant difference is the reduced acoustic performance from up to 32dB reduction achieved by the Soundex Curtains in comparison to the 24dB from the Soundex Quilts.



Registered Design, Patent Pending



> “Very professional, speedy response and easy to deal with.”

Consultancy & support...





With many factors having an influence on the effectiveness of any noise management programme we are pleased to offer our clients the following:

- On site demonstrations and site visits to establish the optimum solution
- Share our knowledge & experience to give an understanding of the concept of noise control
- Provide effective solutions that are delivered on time and within budget
- Follow up our initial response to every enquiry meticulously to a satisfactory completion
- Give our clients the peace of mind that ‘Soundex’ is the right choice for noise mitigation
- Monitoring and assessments to ensure Industry and Local Authority exposure limits are met






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