



RIDGEWAY

RIDGEFENCE ACOUSTIC BARRIERS

Available for hire or sale, the Ridgefence Acoustic Barrier 30dB is a top of the range, flexible sound barrier which fits easily to any temporary fencing panel.

Here at Ridgeway we are all aware that we are surrounded by noise. We however only notice bad noise, based on existing evidence initial estimates of the cost of noise pollution costs the UK around £7 billion per annum, £3-£5 billion in annoyance cost, £2-£3 billion in adverse health cost and losses of another £2 billion in productivity cost.

Independent testing has shown that Ridgefence Acoustic Barriers can deliver up to 30dB noise reduction. They are ideal for city centre construction sites, scaffolding sites and rail and roadside works. Fitting our specially developed sound absorbing barrier couldn't be simpler, attaching quickly and easily onto any mesh panelling.

Ridgefence Acoustic Barriers are available in the industry standard 2000mm x 1200mm panel. Bespoke sizes available upon request.



Aspects of noise Control

There are three fundamental acoustic considerations when controlling noise:

- Sound Insulation
- Sound Absorption
- Vibration Isolation / Dampening

Our Acoustic Barriers are the most efficient Acoustic Barriers in the market to control noise pollution. In their unique design the barrier absorbs the sound instead of bouncing the sound back to the direction it came from. Sound is simply a pressure wave in air travelling at 344 m/sec. the greater the pressure the greater the perceived loudness. The normal unit used to measure sound pressure levels is the decibel (dB).

There are several sound forms. E.g. pulse and tones = noise.

Ridgefence Acoustic Barriers has the effect of conversion of sound energy to heat energy. This is achieved using open cellular materials, whereby the passage of sound is impeded by friction and the energy is dispersed.

Ridgefence Acoustic Barriers are flexible to use and can be easily installed onto any Ridgefence temporary fencing panel, enabling sound absorption of up to 30 dB.

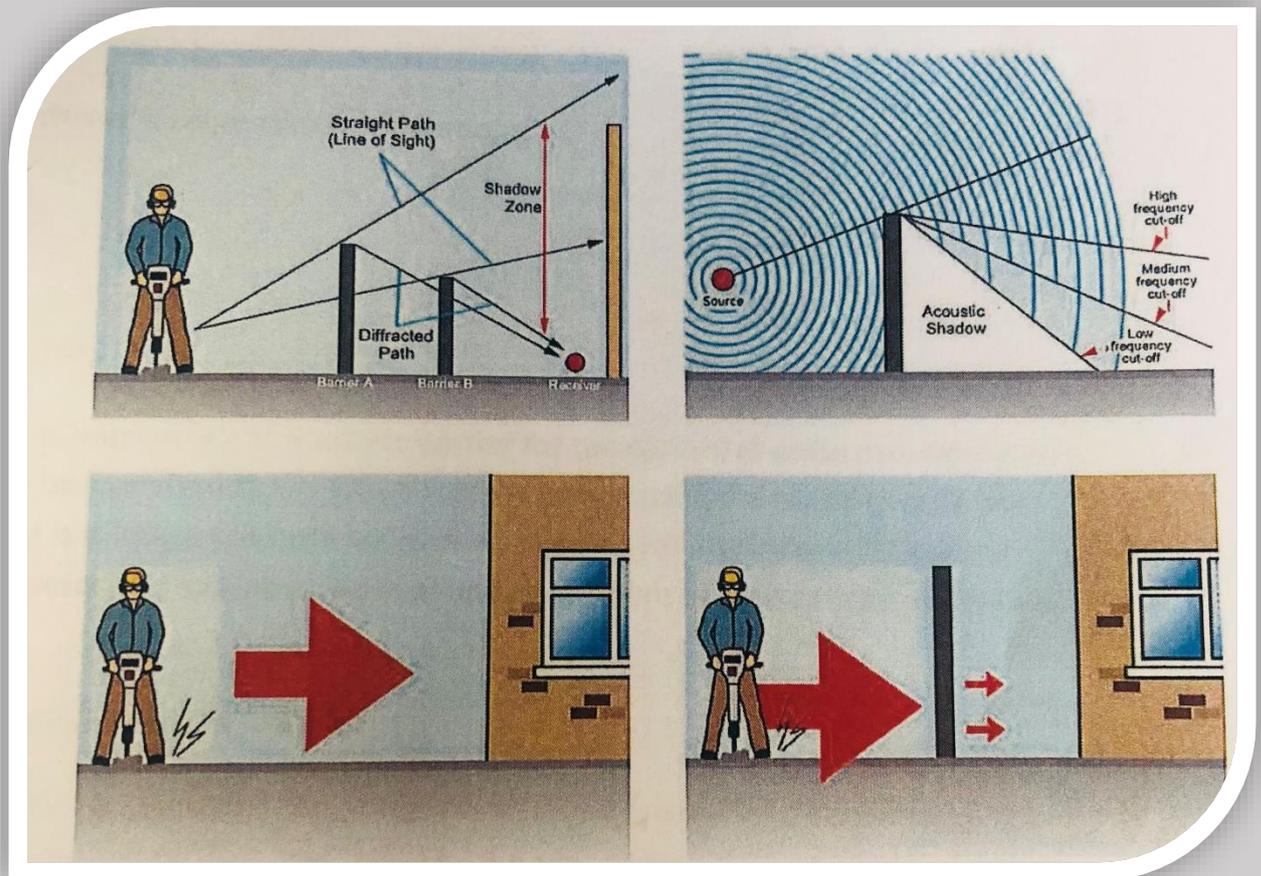
Ridgeway are finding that local councils are demanding that contractors adhere to the Noise Pollution Act of 1974 and the Environmental Protection Act 1990 and all contractors should work inline to the BS 5228 /2009 Guide to Procedures to Prevent Noise Pollution.

Ridgefence Acoustic Barriers can be hired or purchased and branded to your corporate livery.



Installation and Handling

Ridgefence Acoustic Barriers can be quickly and easily fixed to site fencing and scaffolding. This allows them to both absorb noise onsite and create a barrier to the outside community. As sound will diffract around objects, Ridgefence Acoustic Barriers should be placed in close proximity to the noise source to stop 'line of sight' to surrounding buildings and the public. The cloth face of the barrier should face the noise source. The barriers should be overlapped by 50mm and care should be taken to avoid gaps, as this will improve the overall effectiveness and reduce leakage.



Without Ridgefence Acoustic Barriers

With Ridgefence Acoustic Barriers

Care should be taken that fence panels or supporting structures are adequately restrained in high wind conditions.

Support and Consultancy

At Ridgeway can offer advice and consultancy for the best practice for noise control and isolation in a variety of applications, including construction and industrial.

How they work

Ridgefence Acoustic Barriers have been developed using a composite of fibres that both absorbs and controls noise. When noise is generated on site the barriers membrane will **absorb** and **reduce** the degree of noise pollution.

Features

- Sound absorbing product
- Up to 30 dB of noise reduction
- Fast and simple installation
- Extended working hours

What they are made from

Ridgefence Acoustic Barriers are made from Polyester Fibre. The Lamspro Polyester Fibre has excellent sound absorbing properties.

Technical information:

Physical Properties	Weight:	617 g/m ² (2,0 oz/ft ²) 18.2 oz/yd ²
	Density:	14.0kg/m ³ (.89lb/ft ³) (24.1lb/yd ³)
	Thickness:	44mm (1.7 inch)
Air Flow – ASTM C-522	Resistance:	1000 Rayls MKS
	Resistivity:	23,000 Rayls MKS/meter
Thermal Properties	R value 5.8 at 44mm thickness	
Flammability Results	FMVSS 302	Pass
	UL94 sec.7	94HB
	UL94 secv.12	94HBF and 94HF-2

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