



**ECHO H-SERIES**  
NOISE CONTROL SYSTEM

# ECHO BARRIER®

Environmentally Sound





You know a successful business by the company it keeps.

Balfour Beatty

VolkerHighways



ISG Pearce

MORRISON Utility Services

Southern Water

amec

SBB CFF FFS

greenbelt

Tube Lines

British Waterways

bam

**ECHO BARRIER**

Taylor Woodrow

MUSIC TELEVISION

VINCI

Transport for London

MAY GURNEY

MURPHY

BauBedarf

# Keeping the peace

Excessive noise is an increasingly important social and commercial issue that impacts on operational efficiency, project costs and timescales, and company reputation. With over 30 years experience in noise management, Echo Barrier provides high tech, market-leading solutions to address these issues.

The commercial benefits of noise reduction are enormous, including extending site operating hours (thereby reducing costs), minimising the likelihood of noise complaints, and creating a more productive working environment.

The new H-series of acoustic barriers provides a cost effective solution that delivers these benefits whilst being quick and easy to install.

Innovative design features not only provide exceptional acoustic performance but have been developed for simple storage, transportation and fitting, as well as being manufactured to meet the rigours of the demanding work environment.

Applications for the barrier are wide-ranging – from construction, demolition and maintenance work to noisy outdoor events such as music and sport.



“We would recommend Echo Barrier to any contractor looking to contain excessive noise on their worksites”

Balfour Beatty Rail

**Balfour Beatty**



# Making a difference

The H-series range from Echo Barrier delivers market leading acoustic performance. By simply and quickly fitting on to temporary fencing or scaffolding, the barriers provide an effective solution to noise problems.

H-series key features and benefits

**Performance** – noise is literally soaked up by its acoustic properties with the option of enhanced performance by adding extra barriers

**Handling** – light, compact and hard-wearing, the unique self-locking mechanism makes transportation and storage easy

**Installation** – its innovative design reduces on-site installation time by up to 70% compared to other screening methods

**Cost** – offering the best in cost/performance, it delivers exceptional returns on investment

**Safety** – unique night time reflective strips together with its fire and weather resistant construction contributes to site safety

**Best Practice** – helping to meet industry best practice in noise control with best-in-class acoustic performance

**Advertising** – its large surface area provides excellent options for company branding and advertising

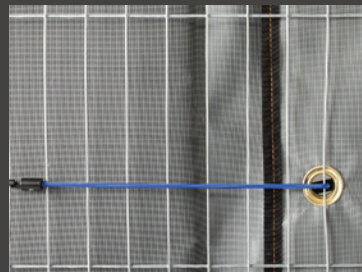
**Support** – unparalleled technical support to advise on usage and on-site configuration to ensure optimum performance



Unfold



Hook on



Fasten

“The costs of the noise mitigation measures range from £2,000 to £6,000 per weekend. Considering that a noise abatement order could jeopardise a £1million contract for a weekend track renewal project, the mitigation costs are low”

London Underground on using Echo Barrier



## H-series technical features

- Simple and quick installation system
- Lightweight for easy one person handling
- Unique roll-up design for compact storage and transportation
- Double or triple up for noise 'hot spots'
- Ability to add branding and messages
- Aesthetic design
- Range of fixing accessories available
- Reflective strips to aid night time visibility
- Weatherproof – does not absorb water
- Fire resistant
- No fibreglass or rockwool used

## Accessories



Reversible hooks for different fence sizes. Attach multiple barriers to one hook.



Quickly secure barriers in place, making accurate fitting easy to prevent acoustic leaks.



Fitting kits – one hook and two elastics per barrier (hook also hangs adjoining barrier).



Vinyl covered multi-strand cable used with padlock to secure barriers through eyelets and fence.

## Technical data

Dimensions(flat):  
2.0m high x 1.2m wide

Dimensions (rolled):  
0.2m diameter x 1.2m

Weight: 6kg

Acoustic performance:  
10 – 20dB noise reduction  
(greater if barriers doubled up)  
3 barriers per standard  
3.5m wide fence.

## Applications



Railway works



Road projects



Events



Construction sites



Demolition



Staff welfare

# Delivering acoustic performance

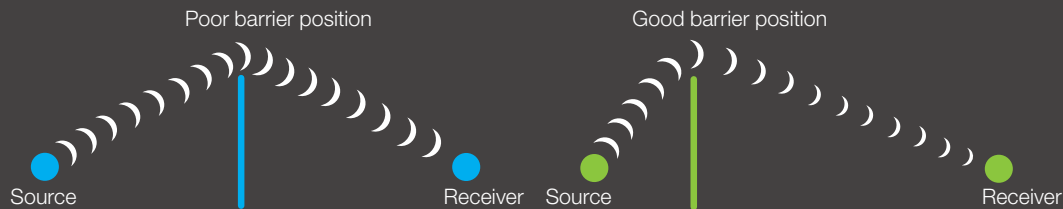
Echo Barrier has world-leading acoustic engineers constantly researching and developing new solutions to ensure we remain global market leaders in our sector.

The basic acoustic elements of the barriers comprise a mass layer and a carefully designed acoustic absorbent layer. These not only attenuate the direct transmission of sound, but also reduce the sound reflected back towards the source to improve the overall performance.

## Factors behind good performance

To achieve optimum acoustic performance, three factors need to be taken into account:

**1. Geometry** – the barrier needs to be placed as close to the noise source as possible in order to maximise the ‘acoustic shadow’.



**2. Mass** – the mass of the impermeable material used determines the noise attenuation but only if the barrier is infinitely large. As this isn't practicable because noise passes over the barrier, there is an optimum mass/geometry configuration that gives the best attenuation without compromising handling.

**3. Absorption** – a well designed barrier must include acoustic absorbent materials on the noise source side to 'soak up' the sound and minimise reflections. The hi-tech material we have developed has not only been tuned to the optimum frequency range, but is safe to handle and is also, uniquely, a waterproof acoustic absorbant layer.



Echo Barrier was recognised at the 2011 UK Noise Abatement Society Awards by both the society and by the Institute of Acoustics for the innovative and elegant design of its H-series of barriers.

Echo Barrier is committed to working with Carbon Footprint on assessing the environmental impact of our noise reduction solutions. By carrying out a carbon life cycle analysis on our products we aim to identify opportunities to increase the overall sustainability of our product.





Echo Barrier puts  
a spotlight on your event





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