










Key Features

-  **EchoAbsorb Straight Timber Structure**
 (Timber structures absorb/reflect sound helping reduce levels)
-  **Conforms and Tested to BS EN 1793**
 (Highways England Requirement for noise reducing devices)
-  **Durability**
 (Wood Treated to BS 8417, incised for ground contact)
-  **Compliant with Highways Sector Scheme 2C**
 (Standard for Pre-fabrication of environmental barriers)
-  **30 Year Desired Service Life**
 (Manufacturer offers this subject to correct installation)

Suitable For

-  **Urban Noise Reduction**
-  **Residential Privacy**
-  **Commercial & Industrial Spaces**
-  **Schools & Educational Institutions**
-  **Transportation Infrastructure**



Conforms to BS EN 1793

(Also tested and complies to BS EN 1794-1 & 1794-2)
 These standards measure sound insulation properties of road traffic noise reducing devices.



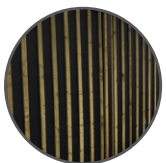
Long Service Life

Manufacturer states this has a 30 year desired service life, subject to correct installation.



Simple Installation

Each kit comes with loose components for constructing one bay or a ready assembled panel for quick and effective installation. Choose a steel or timber post.



Stylish and Modern

Timber has an inviting warm look that will work well in most settings

Specification

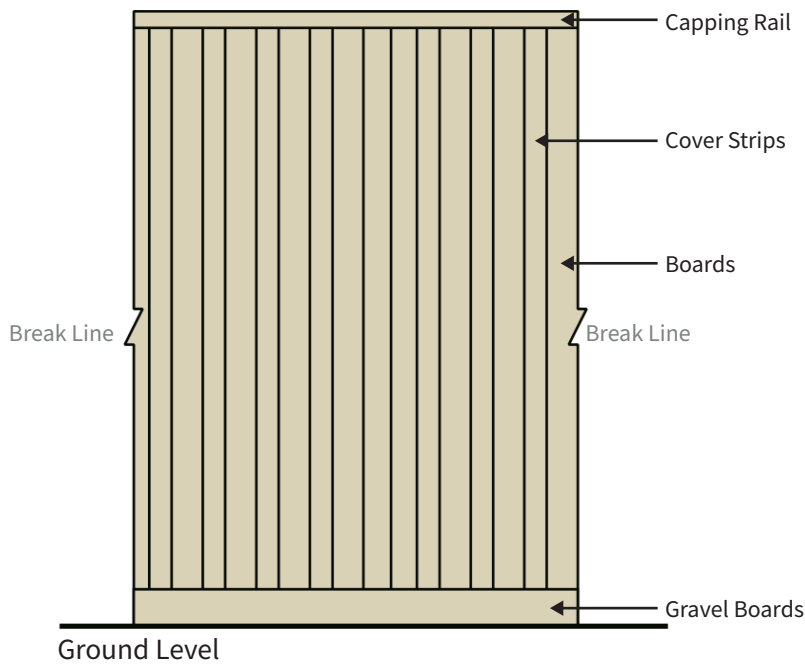
| | |
|-----------------------|--|
| System Height (Total) | 2.0m |
| Bay Width | 2.4m |
| Kit Style | Loose Kit or Pre-Assembled |
| Ground Installation | Dig In Only |
| Material | Incised, pressure treated timber, Tanalised to UC4 |
| Source | Supplied by a reputable UK sawmill (FSC certified) |



Call our Expert Sales Team for more information.



FRONT VIEW



Design and height to suit specific requirements.

Conforms and tested to BS EN 1793. Also tested and complies to BS EN 1794-1 and BS EN 1794-2.

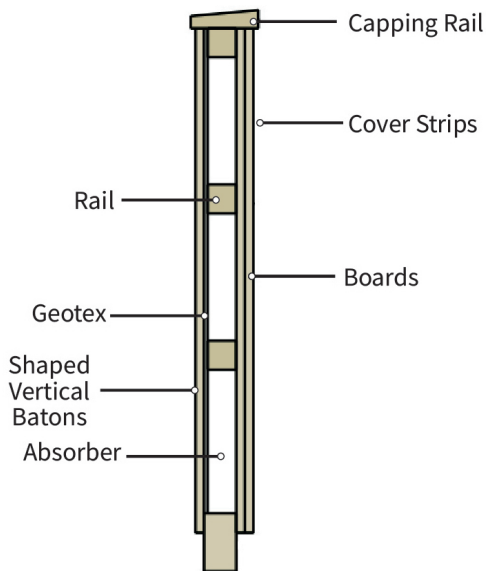
Conforms with Highways Sector Scheme 2C for the prefabrication of environmental barriers.

Structural calculations available for individual site conditions.

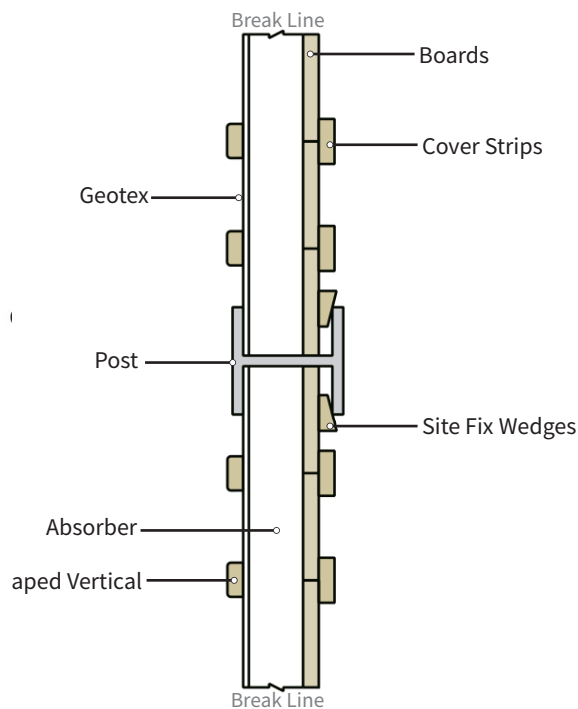
Design in accordance with specification for Highway Works Clause 2504. Treatment to Sector Scheme 4.

Height of sound screen variable to suit specific locations. Post centres at 2.4m unless otherwise specified.

Absorbent sound screens can be fitted to timber posts and steel posts.



SIDE SECTION VIEW



TOP SECTION VIEW
(Capping omitted)



What's included in this kit:

| | |
|--|-----|
| EchoAbsorb Straight Boards (150mm x 22mm x 1.9m) | x16 |
| Gravel Board (Timber, 150mm x 75mm x 2.4m) | x1 |
| Capping Rail (2.4m x 175mm x 50mm > 38mm) | x1 |
| Horizontal Rail (75mm x 75mm x 2.4mm) | x3 |
| Cover Strips (1.9m x 75mm x 22mm) | x27 |

Absorbent Sound Screen Fitted Into Steel Posts

BS EN 1793-1: 1998

Acoustics - Road Traffic Noise Reducing Devices

Test Method for determining the acoustic performance

SIZE 12m²

RECEIVING ROOM

Volume: 220m²

Condition: clean

Type: large reverberation room

Location: acoustic transmission suite

SAMPLE OUT: TEMPERATURE: 20.1°C HUMIDITY: 48.5%

SAMPLE IN: TEMPERATURE: 22.4°C HUMIDITY: 51.7%

DL_α: 12 CATEGORY: A4

Design and Height to suit specific requirements.

Conforms and tested to BS EN 1793. Also tested and complies to BS EN 1794-1 and BS EN 1794-2.

Complies with Highways Sector Scheme 2C for the prefabrication of environmental barriers.

Structural calculations available for individual site conditions.

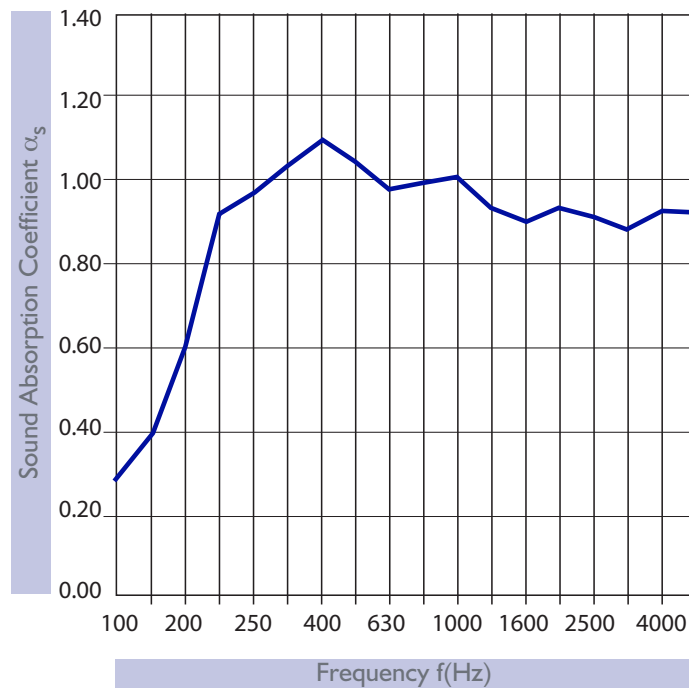
Design in accordance with specification for Highway Works Clause 2504. Treatment to Sector Scheme 4.

Height of sound screen variable to suit specific locations. Post centres at 2.4m unless otherwise specified.

Absorbent sound screen fitted to timber or steel posts.

Average density 71kg/m² (excluding posts).

| FREQUENCY HZ | α _s |
|-----------------|----------------|
| 100 | 0.27 |
| 125 | 0.40 |
| 160 | 0.62 |
| 200 | 0.90 |
| 250 | 0.94 |
| 315 | 1.03 |
| 400 | 1.10 |
| 500 | 1.06 |
| 630 | 0.97 |
| 800 | 0.99 |
| 1000 | 1.00 |
| 1250 | 0.90 |
| 1600 | 0.89 |
| 2000 | 0.92 |
| 2500 | 0.90 |
| 3150 | 0.87 |
| 4000 | 0.92 |
| 5000 | 0.91 |



Test results for HALES SAWMILLS LTD – REFLECTIVE SOUND SCREEN, issued by: University of Salford (Acoustics Test Laboratory) UKAS accredited test laboratory No. 1262



Absorbent Sound Screen Fitted Into Steel Posts

BS EN 1793-1: 1998

Acoustics - Road Traffic Noise Reducing Devices

Test Method for determining the acoustic performance

| | | | |
|-------------------|-----------------------------|------------|-----------------------------|
| SIZE | 8.64m ² | | |
| SOURCE ROOM | RECEIVING ROOM | | |
| Volume: | 136m ² | Volume: | 220m ² |
| Condition: | clean | Condition: | clean |
| Type: | large reverberation room | Type: | large reverberation room |
| Location: | acoustic transmission suite | Location: | acoustic transmission suite |
| TEMPERATURE: | 19.2° | | |
| HUMIDITY: | 56.3% | | |
| DL _R : | 35 | CATEGORY: | B3 |

Design and height to suit specific requirements.

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Complies with Highways Sector Scheme 2C for the prefabrication of environmental barriers.

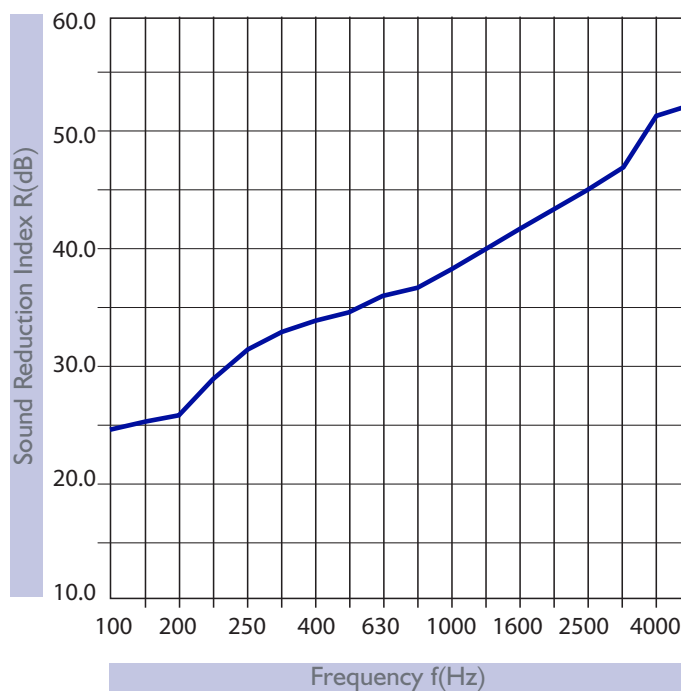
Structural calculations available for individual site conditions.

Design in accordance with specification for Highway Works Clause 2504. Treatment to Sector Scheme 4.

Height of sound screen variable to suit specific locations. Post centres at 2.4m unless otherwise specified.

Absorbent sound screen fitted to timber or steel posts.

| FREQUENCY HZ | R |
|-----------------|------|
| 100 | 24.4 |
| 125 | 25.2 |
| 160 | 25.9 |
| 200 | 28.2 |
| 250 | 31.8 |
| 315 | 32.9 |
| 400 | 33.3 |
| 500 | 34.3 |
| 630 | 36.2 |
| 800 | 36.8 |
| 1000 | 38.0 |
| 1250 | 39.6 |
| 1600 | 41.6 |
| 2000 | 43.2 |
| 2500 | 44.9 |
| 3150 | 47.1 |
| 4000 | 51.3 |
| 5000 | 52.4 |



Follow the installation guide for your EchoAbsorb Acoustic Fencing

Step 1

Determine how many bays and posts you require by using our product calculator.

Step 2

Dig your post holes. Post centres are 2.4m. Ensure all posts are securely set in the ground using a suitable structural anchoring method. The foundation must be capable of supporting the weight of the acoustic panels and resisting local wind loads. Use a taut line from one end of the fence run to the other to maintain a straight line.

Step 3

Face fix square rails onto the posts with 600mm gaps, using the 600mm spacers provided, allowing for the absorbent slabs to be added later.

Step 4

On the non-absorbing side of the barrier (facing the area that you are looking to protect from the noise) attach the vertical boards to the rails using stainless steel nails (64mm A2). The boards need to be nailed onto the rails butted up to each other.

Step 5

Cover strips then need to be attached over the joints where the panels butt up together, using stainless steel nails.

Step 6

On the front side of the barrier (facing the noise source) infill with 1.2 x 0.6m absorbent slabs and cover over with the membrane securing with 1" stainless steel staples.

Step 7

Fix cover strips over the membrane with 225mm spacing.

Step 8

Finally fix the capping onto the top of the panels using stainless steel nails to allow water to shed in the direction of the post.

Additional Information

These panels are suitable for painting with a breathable stain or paint. It's advised to clear vegetation where the acoustic fencing will be installed. Avoid installation in areas prone to water accumulation.



Call our Expert Sales Team for more information.

