FirstFence®
HIRE & SALES

EchoGroove Lite Acoustic Screening

2.0m x 1.829m Specification Sheet

SPC-LITE-003B

Call our Expert Sales Team for more information.

First Fence Ltd | Kiln Way, Woodville, South Derbyshire, DE11 8EA
01283 512 111 | www.firstfence.co.uk | sales@firstfence.co.uk

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Natural Elegance, Acoustic Excellence

Our timber acoustic fencing combines the organic beauty of premium wood with high-performance sound reduction. Designed to integrate perfectly into high-end landscapes, it provides a powerful barrier against noise pollution without sacrificing aesthetic appeal.

EchoGroove Lite acoustic screening is designed for straightforward installation. The interlocking panels are designed to fix directly to timber posts or slot into concrete posts or steel Duraposts. This is a dig-in only system and comes as pre-assembled panels.

The average noise reduction achieved by the EchoGroove Lite system in laboratory tests is 25dB, giving the highest rating of B3 - the rating required for highways schemes.

Key Features

- Tongue & Groove 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)
- 15 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

Specification

System Height (Installed)		2.0m
Bay Width		1.829m
Style		Pre-Assembled Panel
Ground Installation		Dig In Only
Material	Tanalised TIMBER	Preservative treated pine Tanalised to UC4
Source		Supplied by a reputable UK sawmill (FSC certified)
Posts Available		Timber (2.7m x 100x100mm) Concrete (9ft/2.74m) DuraPost (48mm x 2700mm)

Features: Planed T&G Boards
How it works: Reduces noise through reflection

Choice of Post

Timber Posts

Concrete Posts

DuraPosts

Posts available separately

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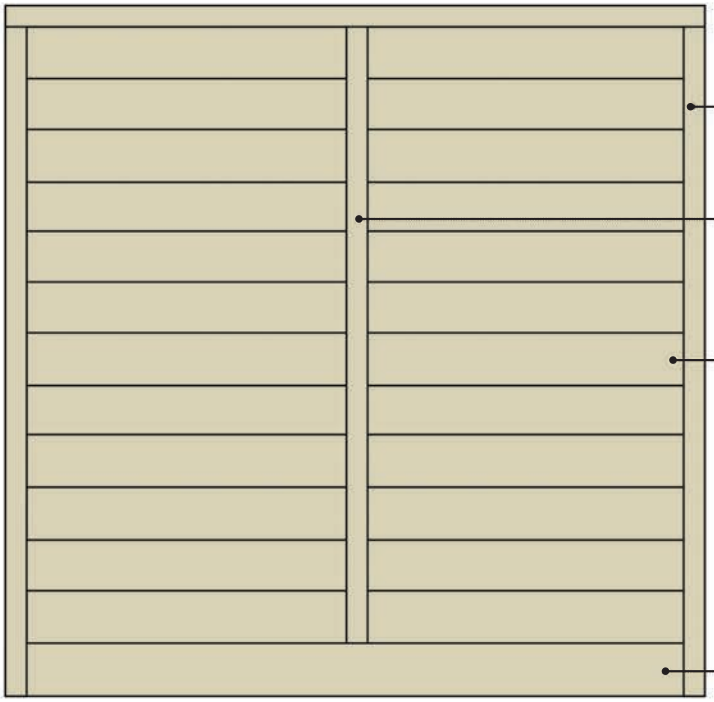
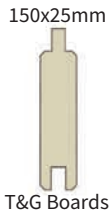
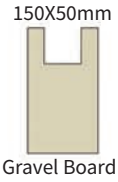
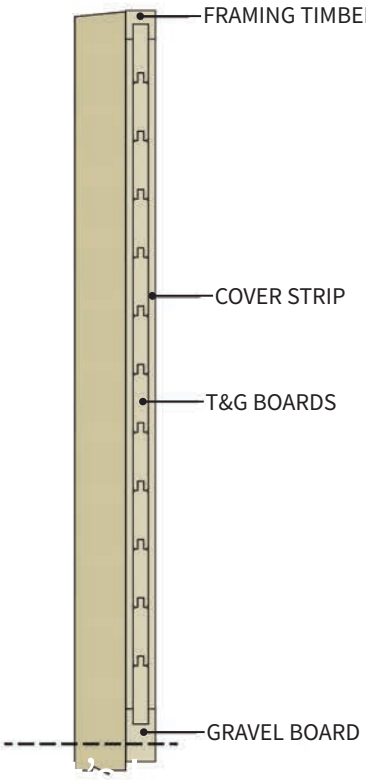
FRONT VIEW

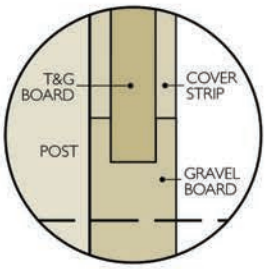


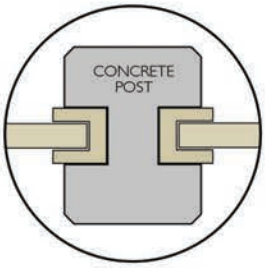




All nominal sizes.
All planed all round.







Graphics are for illustration only, number of boards will vary depending on system height. This is a pre-assembled system.

Meets Highways England requirements of Acoustic Test BN EN 1793 to provide a noise reduction of 25dB providing a rating of B3 - the highest rating possible.

Meets Highways England requirements of Structural Design to BS EN 1794. Design calculations available for individual site requirements.

Single or double gates can be incorporated when required.

Heights available 1.5m, 1.8m, 2.0m and 2.4m all including the gravel board. All panels made to 1.829m wide.

Decorative trellis can be fitted above panel when required.

Treatment and fastenings in accordance with BS 8417 to provide 15 years desired service life (Use Class 4 - as defined in BS EN 335).

Tanalised™ TIMBER

EchoGroove Lite 2.0m High x 1.829m Wide Acoustic UC4 Panel x1

Choice of timber, concrete or DuraPosts. These are additional items and do not come with the EchoGroove Lite panel.

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SPC-LITE-003B

EchoGroove Lite Reflective Acoustic Screen

Sample Size: 8.64m² Test Room Identification: Acoustic Transmission Suite

	SOURCE ROOM	RECEIVING ROOM
Volume:	136m²	220m²
Temperature:	20.5°C	18.9°C
Humidity:	42.2%	48.1%

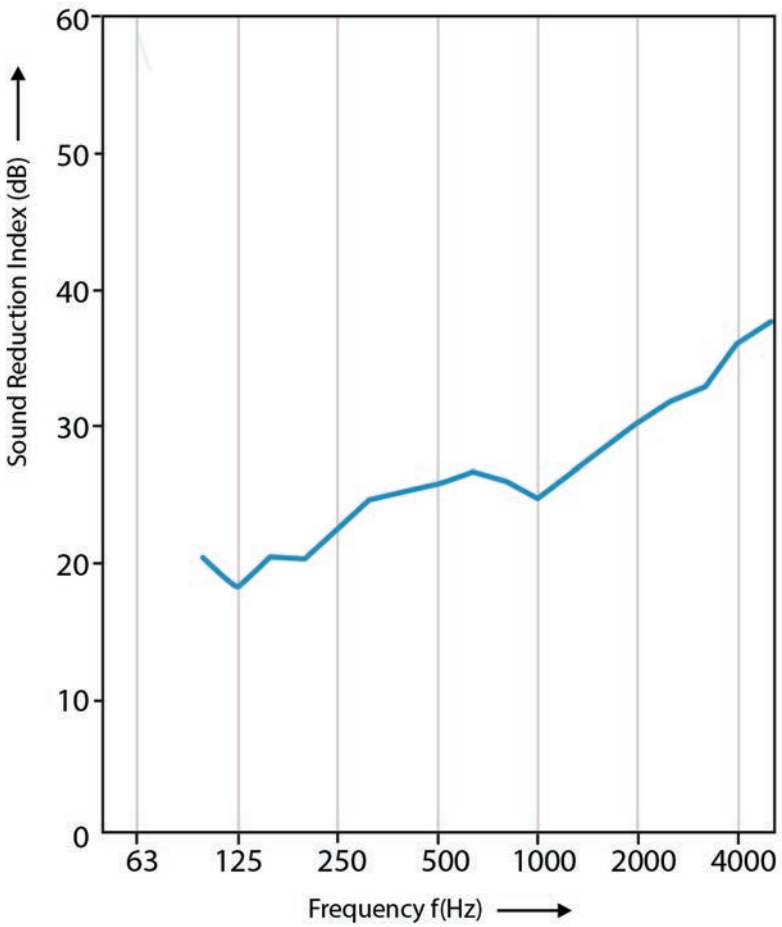
Ambient Pressure: 100.2 kPa

Measure Mass per Unit Area: 13.7 kg/m³

Curing Time: N/A

Rating according to BS EN 1793-2: DLR = dB Category: B3

Frequency f (Hz)	R % octave (dB)
50	-
63	-
80	-
100	20.3
125	18.4
160	20.4
200	20.3
250	22.3
315	24.5
400	25.0
500	25.6
630	26.5
800	25.9
1000	24.5
1250	26.3
1600	28.2
2000	29.9
2500	31.5
3150	32.6
4000	35.7
5000	37.3



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

Tanalised™ TIMBER

EchoGroove Lite Acoustic Screening

Installation Guide

Step 1: Mark Out and Prepare the Fence Line (All Post Types)

Clear the intended fence line of any obstructions. Use a string line and pegs to mark a straight line for the fence. Mark the position for the centre of your first post hole. Post centres are approximately 1.8m.

Step 2: Install the Fence Posts

You can use either wooden posts, concrete posts or DuraPosts.

Dig a suitable hole for your post, allowing for the height of the fence. The hole should be a minimum of one third of the height of the fence and three times the diameter of the post. The hole size may vary depending on the chosen post, fence height and ground conditions.

Place the first post into the hole, use a spirit level to ensure it is perfectly upright (plumb), and concrete it into position. Allow the concrete to cure fully before proceeding. Follow the same procedure for your next and subsequent posts.

Concrete Posts

Place the panel in position to measure the location of the next post and dig a new hole. Repeat this process along the length of the fencing barrier, using a taut line from one end of the fence to the other to maintain a straight line. Once all posts are fitted, simply slot the EchoGroove Lite panels into place between the concrete posts.

Timber Posts

Place the panel in position to measure the location of the next post and dig a new hole, allowing for the panels to butt up against each other on the front of the post. Once all the posts are in place, attach the panel to the front of each post using nails. You will then fix the cover strip over the joint where the panels butt together. Repeat this process along the length of the fencing barrier.

DuraPosts

Place the panel in position to measure the location of the next post and dig a new hole. Repeat this process until all posts are in position.

Slot the EchoGroove Lite panels into place between the installed DuraPosts.

Secure the panel by screwing through the pre-drilled holes in the DuraPost directly into the panel's timber frame on both sides. Use appropriate screws for metal-to-wood fixing. Repeat for the rest of the fence.

Corners and Ends

An end post is required to complete a run. A timber post can be used as an end or a corner post. Use two concrete or DuraPosts to form an end or corner as required.

Final Checks (For All Methods)

Walk the fence line and check that all panels and posts are secure and level.

Ensure there are no significant gaps that could compromise the acoustic performance.

If you used timber posts, you can add decorative post caps to protect the end grain from weather.

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.

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