



Garden Designer - Mark Lane installed Jakoustic in his own garden - he explains, *'It is now actually possible to have a normal conversation, instead of shouting. One great aspect is that as a result of the acoustic barrier being installed, we can now make full use of this area. We have created a seating/dining area underneath the large trees next to the Jakoustic. It not only looks great, especially with the late afternoon sun, it is a peaceful area to relax in with a glass of something after the stresses of the day.'*



# Jakoustic® Acoustic Barriers



Welcome to reduced levels of environmental noise and a better quality of life.

Jakoustic® fencing is designed to shield your property from environmental noise pollution caused by traffic, machinery or people. It improves your quality of life by allowing you to use areas of your garden that have become no-go areas and, due to its design and substantial construction, it also provides a security fence that will protect you from unwanted visitors.

Jakoustic® is available in two barrier types: Reflective and Absorptive. Reflective does as its name suggests, by reflecting noise from its surface, and is the most commonly used type. For situations with noise issues within a confined space where noise reflection could pose additional problems, Jakoustic® Plus, an absorptive barrier type is the solution as it is designed to absorb a high percentage of noise into its structure, rather than reflecting it.

Noise mitigation is usually a complex problem, so to ensure that you arrive at the best solution for your specific situation, we recommend consulting a qualified Sound Engineer before you make a purchase.

Please consult with one of our Acoustic Team for details on independent Sound Engineers we are happy to recommend.

The table below shows the results from measurements taken from laboratory testing:

Sound reduction achieved in tests on Jakoustic® barriers				
Distance from barrier	No barrier	Fence height 2m	Fence height 2.5m	Fence height 3m
5m	67.2dB	53.6dB	50.7dB	49.8dB
10m	61.5dB	50.2dB	48dB	47.7dB
15m	58dB	47.7dB	45.5dB	45.1dB
20m	55.2dB	46dB	43.3dB	42.8dB

The above data shows the results from measurements taken during a field trial, which simulated the latest British Standard test procedure for acoustic fencing in a practical location. The generated noise source was directly behind the barrier - barrier length 9.6m.

Please see the following pages for more technical information on Jakoustic® fencing.





Jakoustic® Reflective barrier on steel 'I' beams



Jakoustic® Reflective Barrier



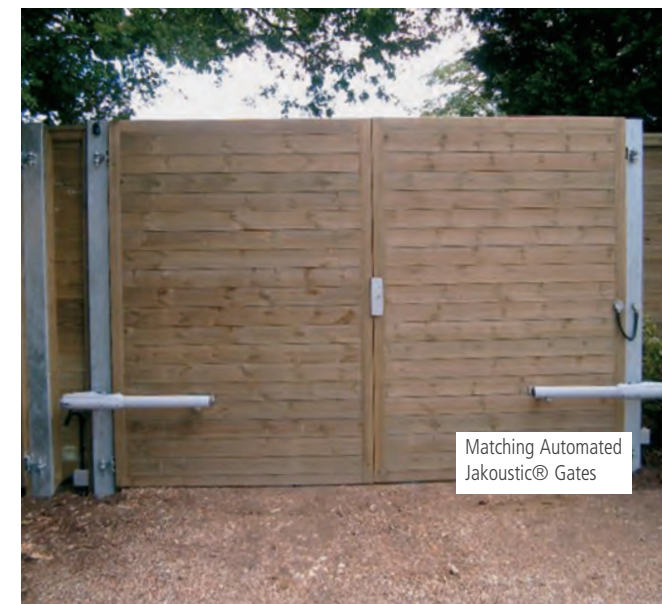
Detail of a tuning fork post 2 - 4m post with first board showing the unique 'vee' profile



Close up of the interlocking vee section



Jakoustic® Absorptive rear view showing membrane



Matching Automated Jakoustic® Gates

# Jakoustic® - Acoustic Barriers



As illustrated in the table on the previous page, in ideal situations, a Jakoustic® barrier can reduce noise by more than 10 decibels (dB).

To put this into perspective, motorway traffic produces 70dB of noise while conversational speech produces 60dB, so a 10dB reduction is significant.

## Jakoustic® Reflective

Jakoustic® Reflective barrier consists of 'tuning fork' posts, unique interlocking vee tongue and groove boards, counter rail, capping rail and all associated fixings. The boards are machined to a finished size of 125mm x 34mm, making Jakoustic® one of the heaviest acoustic barriers in the market.

Jakoustic® barriers are available in heights from 2m to 12m. The height and type of the fence will be determined by the site conditions and also the recommendations of an acoustic survey as carried out by a specialist Sound Engineer. Please enquire directly with us for more details.

## Jakoustic® 12k Envirofence®

We offer a lighter weight, lower cost alternative to the standard Jakoustic® noise barrier in the Jakoustic® 12K Envirofence® which uses 20mm thick by 125mm (nominal) boards. It is suitable for installations where the required noise reduction is lower than that of the standard Jakoustic® noise barrier - or where a superficial mass of 10, 11 or 12 kg/m<sup>2</sup> is specified.

## Jakoustic® Plus

Jakoustic® Plus absorptive acoustic fencing adds an absorptive layer on one side of a standard Jakoustic® barrier made up of a mineral Rockwool fibre and protective membrane. It is ideal for applications where a noise source is in a tight confined area surrounded by reflective surfaces. As with all Jackson's timber products, the timber used in all Jakoustic® barriers has been treated with the unique Jakcure® process which guarantees the product for 25 years against rot and insect attack.

For more information on Jakoustic® Acoustic barriers including LPS1175 certified and Secured by Design versions, please contact our specialist Acoustic Team on: 01233 750 715.

For more information or a quote please call our Acoustic team on:  
**01233 750713 or 750715**