

# Jakoustic barriers - welcome to an acceptable level of noise and a better quality of life...



Jakoustic fencing is designed to protect your property from noise pollution, caused by traffic, machinery or people, giving you a better quality of life by allowing you to use areas of your garden that have become no-go areas and also by providing a security fence that will protect you from unwanted visitors. Jakoustic comes in two styles: Reflective and Absorptive. Reflective does as it suggests, it reflects noise away from your property, this is the most commonly used type. For sites that have noise issues within a confined space where reverberation is a problem, the Absorptive barrier will also, as the name suggests, absorb a high percentage of the noise, rather than reflecting it straight back. To be sure that you get the most suitable fence for your specific situation we recommend consulting a qualified Sound Engineer to ensure you get the very best advice. ( Please ask us for details of independent Sound Engineers).

## **Jakoustic Reflective - The Facts:**

The fence consists of posts, boards, and is supplied with special fixings. The boards are machined to a finished size of 125 x 34mm - this is nearly 50% heavier than standard acoustic fencing. The edges are machined with a combination of an interlocking "vee" coupled with a tongue and groove. Fence are available from 2m to a massive 12m high. The height of the fence will be determined by the site conditions.

**The Posts** - for most applications, from 2-4.0m high fencing, are of a unique tuning fork design which traps the boards, ensuring continuous sound insulation. The posts used for heights over 2m are reinforced with a steel spur, coated black. As with all Jackson's timber products the timber has been treated with the unique Jakcure process which guarantees the products for 25 years against rot and insect attack, it also complies with highways standard for timber treatment.

**Absorptive Jakoustic** barrier is similar in design but with an additional layer of absorbent material applied to the back, which is then contained within a plastic membrane, then secured with 50mm half round machined timbers.

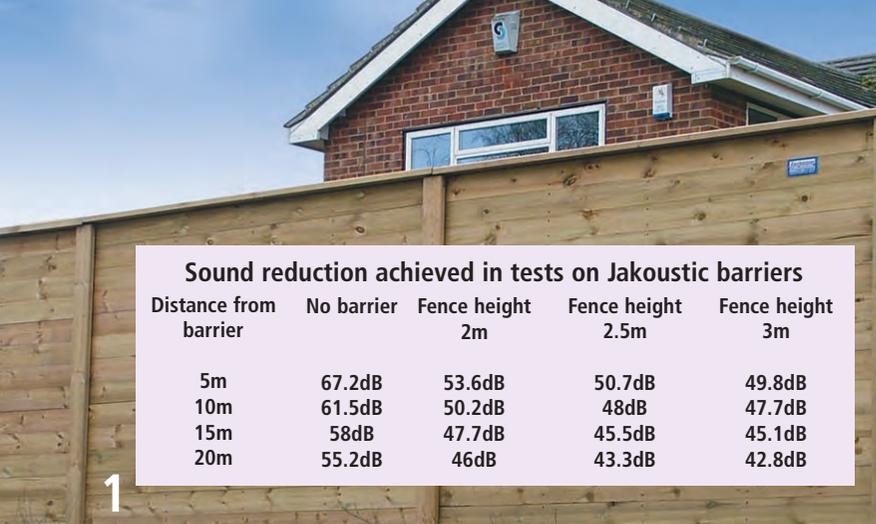
As illustrated in the table at the top of the opposite page opting for a jakoustic barrier can, decrease noise by at least 10 decibels (dB). To put this into perspective when you consider motorway traffic produces 70dB and conversational speech rates as 60dB, 10dBs is a really significant reduction.

Pics:

1. Jakoustic barrier
2. Jakoustic Absorptive rear view showing plastic membrane
3. Jakoustic Reflective Barrier
4. Matching automated Jakoustic gates
5. Detail of 2 - 4m post with first board showing the unique "vee" profile.
6. Close up of the interlocking vee section
7. Side view of Jakoustic panel and post

Jacksons Fencing is a Secured by Design Licensed Company with products which meet technical standards endorsed by ACPO (Association of Chief Police Officers) CPI (Crime Prevention Initiatives) Ltd.





### 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          |

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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.



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garden fencing



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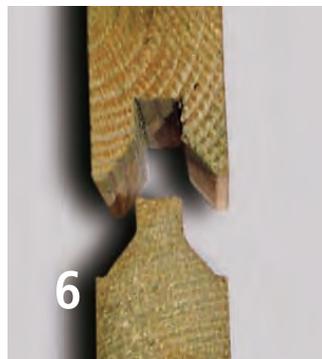


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*"I'm delighted, I can now hold a normal conversation in my garden."  
This was the reaction of Mrs Young of Canterbury, after having Jakoustic installed to reduce the constant deafening din from a nearby busy road.*



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