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# Soundim

## The Future of Railway Noise Reduction

Soundim offers rail companies a low-height barrier that reduces railway noise without restricting passenger views.

**Soundim** is a Finnish company that has developed an innovative noise barrier solution for the rail industry.

The idea for the solution first came from the Finnish Rail Administration (RHK) which, in 2009, published a report on the use of low-level barriers in combating rail noise. Soundim's founders took the findings of this report and began to design a solution that would meet the rail industry's unique requirements.

### A Low-Height, Low-Cost, Noise Barrier for the Rail Industry

The company was officially established in 2012, the same year as its first test installation, when 60 metres of Soundim railway noise barriers were put into place near Helsinki.



Since then, the company has installed a further 2.2 kilometres along the Helsinki Circle Line in addition to multiple projects across Finland, including Tampere and Järvenpää.

It has also begun completing export orders – the first of which was for 600m of barriers near St Petersburg, Russia.

### Blocking Noise at the Source

Most of the noise created by trains travelling at speeds of 200km/h or lower comes from the wheels and rails, which means

sound barriers don't need to be high in order to lower noise pollution in the surrounding area.

Soundim's low-height noise barrier has been proven to reduce this noise by a minimum of 50% due to its excellent absorption (13 dBA / Class A4) and insulation (30dBA / Class B3), especially those high-frequency sounds which can be the most annoying.

### Sustainability Credentials

Its unique sustainable design also means that production costs have been proven to be half those

of traditional sound barriers – a saving that’s passed on to customers.

This is helped by the company’s use of sustainable materials. For example, the absorption material inside the barrier is made from recycled plastic bottles.

*“Sustainability is key to us, I like the fact that we use recycled materials wherever possible,”* says Tero Lepistö, Soundim’s CEO.

## Why Choose Soundim Noise Barriers?

Soundim’s unique solution offers many benefits to rail operators. For example, the 2m and 4m lightweight elements can be installed directly to the track bed via fixing poles, without the need for landscaping or foundation work.

The lightweight barrier blocks – just as well suited to curves and structures like bridges as straight

tracks – also enable fast and simple installation, minimising the time, costs and downtime rail operators face.

In addition, Soundim’s solution includes a hinge mechanism that allows barriers to be individually lowered or even removed, also providing easy access to the barriers’ integrated cable channels.

*“This is one of our unique features,”* says Jukka Näräkkä, Head of Business Development at Soundim.

*“Its flexibility means you can lower the barrier without having to dismantle it, which is very useful in case there’s a need for maintenance work, or a large shipment travelling through.”*

## A Flexible, Customisable Solution

Soundim’s noise barriers offer a flexible, customisable

solution that can be tailored to meet regional regulations and requirements.

*“Our barriers are like Lego pieces you can put together in whatever form you’d like – they’re modular so you can add them together to create a solution that suits you,”* says Lepistö.

The company is keen to hear from any rail operators interested in discussing how Soundim could create a bespoke rail noise barrier solution to fit their specific needs.

For more information on Soundim and its railway noise barriers, please visit [www.soundim.fi/](http://www.soundim.fi/).





# We block the noise, not your view.

No longer there is need to compromise the  
performance with the esthetics.



Eliminating noise  
at the source



Recyclable  
materials



Light weight and no need  
for special foundation



Easy and fast to install  
or to dismantle and reuse

Soundim noise barrier is a perfect  
solution for any rail project.

FOR MORE INFORMATION, PLEASE CONTACT

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