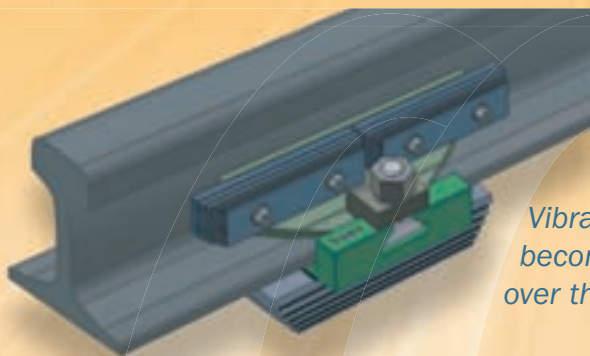


## RAIL ABSORBER INNOVATIVE SOURCE MEASURES



*Vibration technology has become high-end science over the years.*

The new and simple block construction of rail absorbers achieves an efficient reduction of structure born noise of the rail. The level of rolling and squealing noise is reduced demonstrably. After implementing the rail absorbers the following noise level reductions are achieved:

### Rolling noise:

3 dB(A)\*

### Squealing noise:

10 - 15 dB(A)\*\*

The damping of rail vibrations is a more or less new technology within rail engineering and is as yet only used by a handful of operators. A study conducted in 1997 already proved its success in reducing friction noise in curves.

The individual optimisation and customisation of absorbers assure an excellent cost/performance ratio.

The universal absorber design enables fast and simple mounting, independent of any environmental conditions and without preparing the rail.

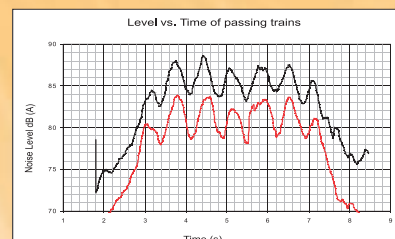
\* depends on the specific situation

\*\* as yet, a rail absorber that reduces the squealing noise in curves for the type of rail used in the Netherlands still needs to be developed

A later assembly of absorbers in existing rail during standard operation (in intervals without trains passing by) can be arranged easily and means a considerable cost-saving for first assembly as well as for future maintenance work.

### Advantages of the rail absorber system VICON-AMSA:

- The broadband sound (acoustic noise) will be reduced at the SOURCE of the noise. All vibration levels created by noise within the rail are reduced. Therefore, corrugation will be decelerated.
- Sound barriers may be kept much lower, or even be completely dispensed with
- The assembly can be conducted easily. The absorber systems can be implemented easily during major preparations - even on older tracks
- High durability under different environmental conditions
- Maintenance-free
- Simple Recycling



*The universal absorber design enables fast and simple mounting. As a result, sound barriers may be kept much lower, or even be completely dispensed with!*

### References

Our absorber system has already proved invaluable in the Netherlands (14 kilometres of Zeeland track and 9 kilometres of HSL track).

Due to the good results in the Netherlands, other countries are now actively conducting trials with our absorber system.