STRAILastic® RAIL _IP

... BRINGING BACK SILENCE!

the gentle track

TRACK DAMPING SYSTEMS *for highest demands.*

IP

made in germany

1 | APPLICATION

STRAILastic_IP – infill panel

Noise protection elements for railways.

STRAILastic is known for damping noise directly at the rail. Now we are launching **STRAILastic_IP**, a series of noise protection walls for railings, e.g. on bridges. It was developed by **STRAIL®** in cooperation with Deutsche Bahn AG (German Federal Railways) as a pilot project. It is a highly efficient noise protection for railways in an exposed position.

STRAILastic_IP – stands for 'infill panel'.
In most cases, railings have been installed on bridges or on supporting walls that run parallel to the rail. **STRAILastic_IP** can be easily added to existing railings using stainless steel fastenings **STRAILastic_IP** is designed in a way that advertisements can be put up on the side remote from the railway.

The main element **STRAILastic_IP** is 1,800 mm wide and 1,250 mm high. The correct mounting position is predetermined by the surface shape. Groove and tongue form a perfect connection to the adjoining panel.
Installing **STRAILastic_IP** is also reasonable alongside tram lines or city railways. However, that requires the existence of railings along the track sections.

The basis material of **STRAILastic_IP** is a fibre-reinforced, recycled elastomer compound. The production of the noise protection walls mostly corresponds to that of the **STRAIL®** level crossing systems.

Therefore, the special, optimized, noise reducing surface shape of the **STRAILastic_IP** elements is produced using trusted and proven methods.

To adjust the infill panels better to their surroundings, we offer different themes. Please contact us.

2 | ADVANTAGES

& details at a glance

The acoustic surface of the **STRAILastic_IP** side facing the rail is designed to break the noise effectively. The inclination of the single absorbers directs the minor, inevitable reflection towards the ballast. The outer side is an acoustic surface as well. Thus, **STRAILastic_IP** breaks every acoustic emission.

Additionally, the typically high dead weight of the panels made of elastomer compound – 140 kg per element – increases the dampening effect. The pressure and pull effects and turbulences which occur at high speed train passages do not impact **STRAILastic_IP**. The fibre-reinforcement reliably absorbs such forces.

Another benefit of the vulcanised elastomer compound:
Other than noise protection elements which are made of other plastics, metals or concrete, it is fatigue-proof, UV and ozone resistant and can be recycled to 100%.

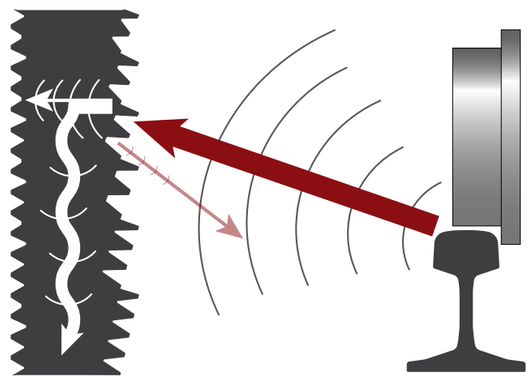
Details

- Weight: approx. 140 kg per element
- Dimensions 1.800 x 1.250 mm (main elements) / 900 x 1.250 mm (special element)
- Surface: high noise attenuating surface (front and backside)
- Pressure and pull forces are reliably absorbed by fibre-reinforcement

Benefits at a glance

- Existing infrastructure can be used > can be installed onto existing bridge railings
- Noise insulation on both sides, no sound bridges
- Easy handling > easy and quick installation
- Can be used as advertising space
- Removable elements > fastenings made of high-quality stainless steel
- UV and ozone resistant due to hot vulcanisation
- Elements are joined by a groove/tongue connection

Right picture
The noise spreads from the noise event and meets the infill panels (left) which absorb part of the noise. The minor part that is reflected is directed into the ballast (and absorbed there) by the inclination of the acoustic surface.



www.strailastic.com

STRAILastic® RAIL

-/ track damping systems / Gleisdämmsysteme

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