STRAIL® lastic

DISTRIBUTED BY PROJEX GROUP PTY. LIMITED

Strailastic Noise Reduction Systems

Strailastic_A Inox 2.0 - Rail Dampers

Strailastic_IP Infill Panel - Noise Attenuation Panels

Strailastic_MSW - Mini Panels

MADE FOR AUSTRALIAN CONDITIONS

Strailastic_A INOX 2.0
The Noise-Absorber System

STRAILastic_A inox 2.0 absorbers are rail web dampers for reducing noise emissions. Rails vibrate due to the discontinuous support of the rails on the sleepers and imbalance of the shifting wheels. Based on its weight, the absorber damps the vibrations and therefore reduces noise.

STRAILastic_A inox 2.0 consists of a heavy, steel bar reinforced elastomer compound. The dampers are produced using a special double vulcanization process.

- Quick and simple handling
- Permanent fastening
- Maintenance-free
- Long service life
- No obstruction of standard track maintenance work
- Good UV light resistance
- Possible noise reduction up to 7dB(A)
- Provide stray current insulation
- Extremely slim design
- Easy to install and dismantle

The installation of STRAILastic_A Inox 2.0 is carried out in a cost-effective manner using assembly aids, regardless of weather conditions. The Inox system can be installed during track possessions/occupations as well as during on-going operation, provided there is a minimum train break (time window) of approximately five minutes.

Temporary removal for rail welding work is trouble-free and possible at any time. There is also no need to dismantle the elements when tamping or grinding the tracks. Control and/or survey work of rail fastenings are not affected or hampered.

Strailastic_IP - Infill Panel

Noise Attenuation Panels

STRAILastic_IP is a noise attenuation panel that can be fitted alongside railway tracks to reduce the amount of ambient noise from passing trains.

The IP panels can be bolted to existing handrails with purpose-made stainless steel brackets.

The STRAILastic_IP panel is 1,800 mm wide and 1,250 mm high. The base material is a fibre-reinforced, recycled elastomer compound that can withstand the cold of winter and the heat of summer without affecting its performance.

Details

Weight: approx. 140kg per panel

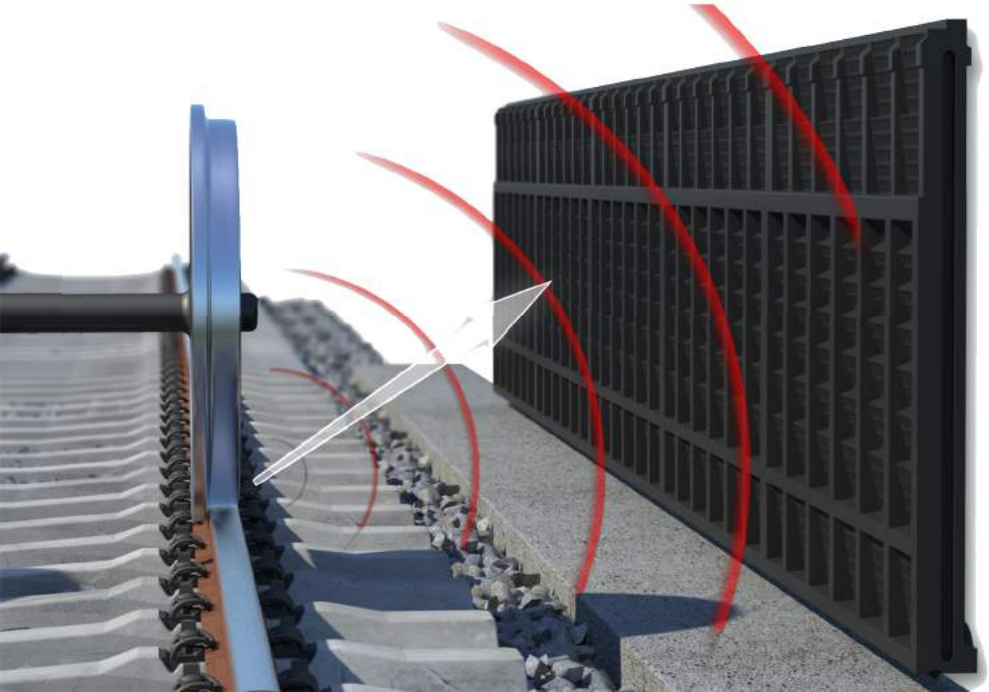
Dimensions: 1,800 x 1,250 mm
Custom sizes on request

Surface: high noise attenuating surface
(Front and backside)

Pressure and pull forces are reliably absorbed by fibre-reinforcement.
Special sizes can be manufactured on request.

The surface of the **STRAILastic_IP panel** facing the rail is designed to reduce the noise of passing trains. The inclination of the absorber's fins directs the generated noise back towards the ballast.

Additionally, the typically high dead weight of the panels made of elastomer compound – 140kg per panel – increases the dampening effect. The pressure and pull effects and turbulences which may occur as trains pass do not impact on the **STRAILastic_IP.** The fibre-reinforcement reliably absorbs those forces.



Benefits at a glance

- Can be installed onto existing bridge railings or infrastructure
- Noise insulation on both sides of the panel
- 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 with a tongue & groove connection
- Recyclable & Fatigue-proof

Strailastic_MSW

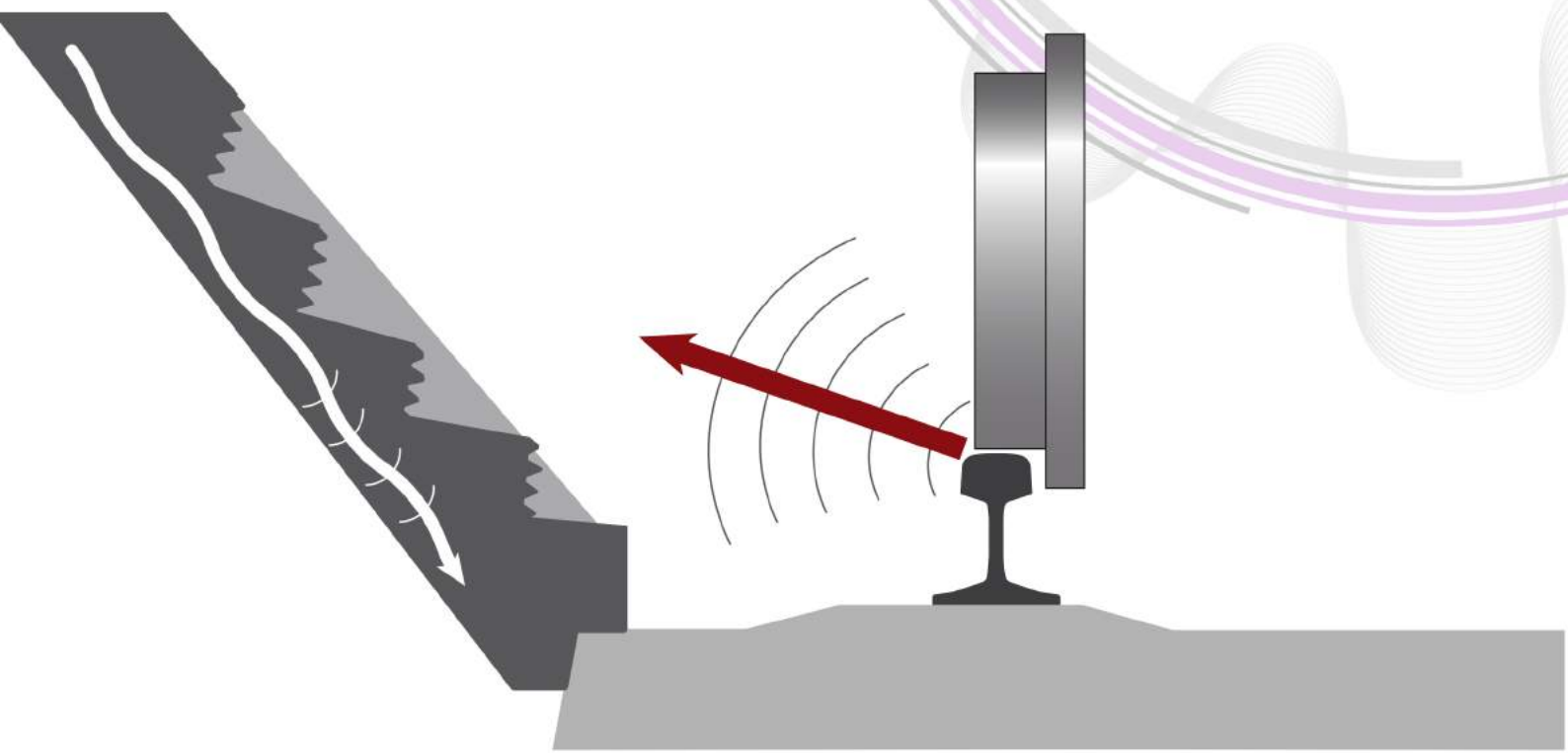
Mini Sound Protection Wall

Reducing sound where it is created, close to the rail. That is the most effective way to dampen sound emissions. For this reason, our new product gets as close to the rail and the loading gauge as possible. Our stable but elastic basic material (fibre-reinforced recycling rubber) allows us to succeed where others fail.

The sound protection elements, which are 1,800 mm wide, are fastened at the sleeper head and therefore guarantee a secure and permanent hold. The special acoustic surface, already successfully in use with **STRAILastic_IP,** has a unique geometry and is always directed towards the sound event in order to absorb it in an optimal way.

The benefits at a glance:

- fastened to the sleepers
- as close as possible to the sound source
- fibre-reinforced high-quality rubber that cannot break
- no fatigue of material due to the forces of vibration, pull and compression



The Strailastic Railway Range

In a rapidly developing world, the demand for better urban rail and tram networks has generated a demand for less noise and vibration, both inside vehicles and alongside tracks. Projex Group is proud to present the **STRAILastic** product range designed to reduce the noise and vibration emitted from those tracks.

The cost and time of installation are very important variables when it comes to choosing which system to use. **STRAILastic** systems are designed to be installed in a series of carefully planned steps, using a family of installation accessories, all manufactured for speed and accuracy.

The **STRAILastic** product range includes:

Noise Attenuation Systems

STRAILastic_A Inox 2.0

STRAILastic_IP Infill Panels

STRAILastic_MSU

Light Rail Track Systems

STRAILastic_TOR & SOK

STRAILastic_GRS

Benefits at a glance

- *Products designed to provide optimum rail solutions*
- *Manufactured in Germany*
- *Reduced construction periods*
- *Simple & quick to install & maintain*
- *Efficient and effective with long term economic benefits*
- *Superior performance & engineering/operational benefits*
- *Excellent strength & resistance to environmental conditions*
- *Effective vibration damping*
- *Excellent stray current insulation*
- *No impact on activities such as ballast cleaning, resurfacing, rail grinding and overall track geometry performance*
- *Allows pre-assembling of infrastructure components*

The **STRAILastic** systems are designed to offer optimum solutions to meet individual customer requirements. They are durable, high performing, cost effective, environmentally compliant and easy to install.

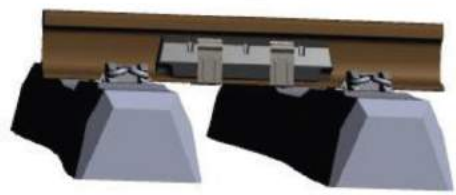
The products/systems offered by Projex & **STRAILastic** are synonymous with quality, reliability, safety and versatility.

The noise and vibration attenuating properties of **STRAILastic** products will convince you of their true benefits.

Contact Projex Group (02 8336 1666) to discuss your noise attenuation requirements.

STRAILastic_A inox 2.0

is a track damping system which is applied at standard-gauge railway tracks and in terminal areas in order to reduce noise.



1. Application

STRAILastic_A inox 2.0 absorbers are track dampers for the reduction of noise emissions and agitation. Due to the discontinuous support of the rails on the sleepers and imbalance of the shifting wheel, rails are caused to vibrate. Based on its weight, the absorber damps the vibration and therefore reduces the noise.

2. Product Description

STRAILastic_A inox 2.0 – absorbers consist of a special, heavy elastomer compound as well as a steel insert and are produced in a specialised vulcanising process. Based on its great mass, the absorbers function as mass dampers. The materials chosen increase the overall damping effect and noise emissions are minimised.

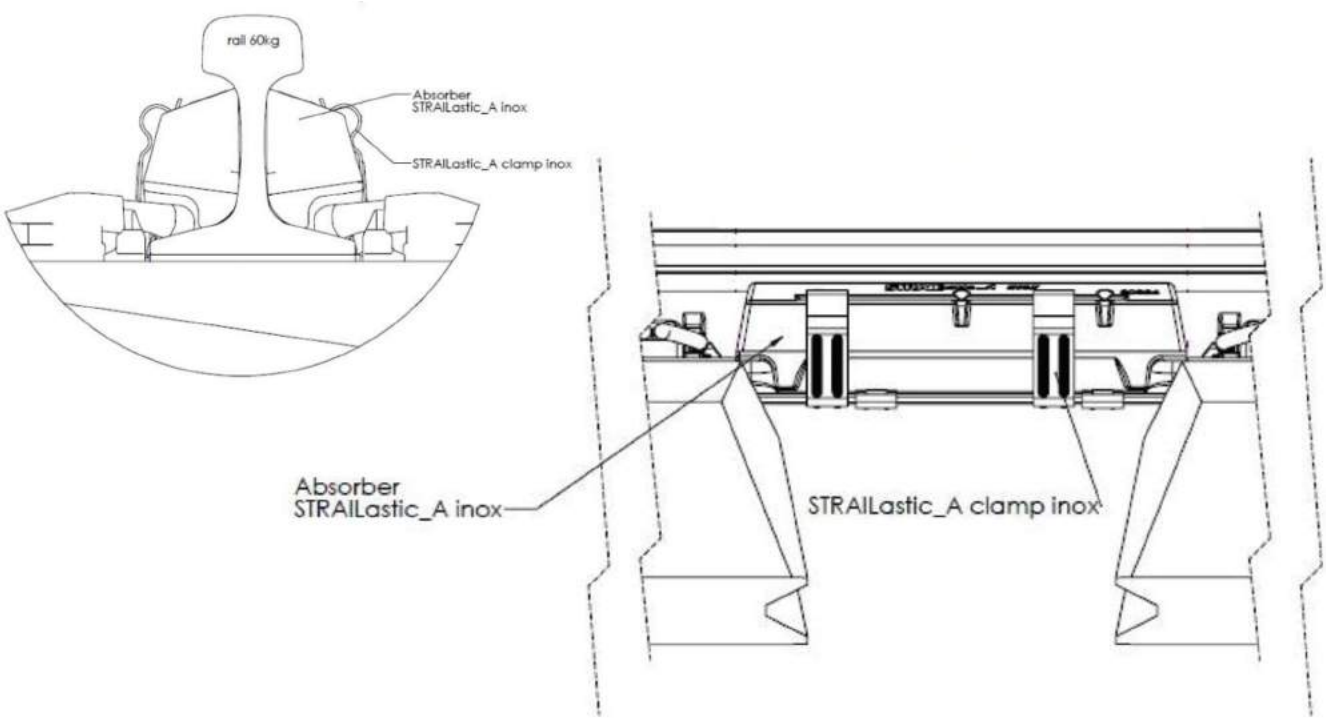
STRAILastic_A inox 2.0 – clamps made of stainless steel connect the absorber with the rail. A damage-free removal is possible at any time and the elements can be used again many times.

STRAILastic_A – coating achieves a high level of corrosion protection for the rail and allows an optimised connection of the absorber regarding noise.

Temperature operating range of the system: - 50° C to + 90° C

3. Drawing

Embodiment for rail 60kg



4. Components / Technical Data

4.1 STRAILastic_A inox 2.0 – absorbers consist of virgin rubber elastomer compound with steel insert

Characteristic	Description
Colour:	Standard black
Dimensions:	Dimensions and weight vary according to the superstructure.

Characteristic	Value	Unit	Standard
Hardness	62 ± 8	Shore A	DIN 53505
Density	2.40 ± 0.25	g/cm³	DIN EN ISO 1183
Tensile strength	> 1	N/mm²	DIN 53504
Tear propagation strength	> 3.5	N/mm²	DIN 53504
Breaking elongation	> 70	%	DIN 53504

4.2 STRAILastic_A inox 2.0 – clamp made of spring steel

Name of material: 1.4310
Characteristics: rust-free stainless steel acc. to DIN 17224 : 1982

Characteristic	Value	Unit	Standard
Tensile strength	1,300 – 1,500	N/mm²	DIN 17224 : 1982

4.3 STRAILastic_A – coating black is a viscoelastic elastomer product on hybrid base.

The STRAILastic_A coating achieves a high level of corrosion protection for the rail and ensures an optimized connection of the absorber regarding noise.

It must be stored protected from frost and sun.

5. Installation

Installation must be carried out according to the **STRAILastic_A inox 2.0** – installation instructions.

6. Quality and Environment

KRAIBURG STRAIL GmbH & Co. KG is a certified company according to standard ISO 9001:2008

External supervision according to standard DIN 18200

KRAIBURG STRAIL GmbH & Co. KG uses environmentally friendly materials.

PROJEX GROUP PTY. LIMITED
IS A PROUD MEMBER OF :

RTAA est. 1973

Permanent Way Institution
The Institution for Rail Infrastructure Engineers

www.projex.com.au

(02) 8336 1666

mail@projex.com.au