

STRAIL[®]lastic_A
RAIL

THE NOISE-ABSORBER SYSTEM.

the
gentle
track.



TRACK DAMPING SYSTEMS *for highest demands.*

A

made
in
germany 



1 | APPLICATION



STRAILastic_A – noise Absorber.

STRAILastic_A synth & inox absorbers are rail dampers which reduce noise emissions. Rails are caused to vibrate due to their discontinuous support and the imbalance of the shifting rail wheel. Due to its weight the absorber damps the vibrations, and therefore reduces the noise.

STRAILastic_A synth & inox consist of a heavy elastomer compound. They are produced in a specialised vulcanising process.

Due to its large mass, the absorber works as a mass damper. In addition, the elastic material increases the overall damping effect. Thus, noise emissions are minimised in two ways.

STRAILastic_A synth & inox benefit from a unique know-how of the **KRAIBURG** group regarding rubber. No environmental hazardous materials are used – neither in the absorbers, nor in the **STRAILastic_A** fastening kit.

Innovation 2012

STRAILastic_A > in two versions:

STRAILastic_A synth

Our current metal-free system made of a vulcanised natural rubber mixture with a plastic clamp.

STRAILastic_A inox

Depending on the situation of installation the new version “**inox**” with a steel core can be installed. An extremely durable fastening with rust-proof stainless steel clamps belongs to “**inox**”.

Both versions are available for all common types of railways and superstructures. We assist you in choosing.

Ideally, **STRAILastic_A synth & inox** are used to reduce noise from tracks running through residential and/or other urban areas as well as across steel bridges.



2 | ECONOMIC EFFICIENCY

two versions, two possibilities.

1 STRAILastic_A inox absorbers made of a vulcanised natural rubber mixture with steel core > for all common rail types

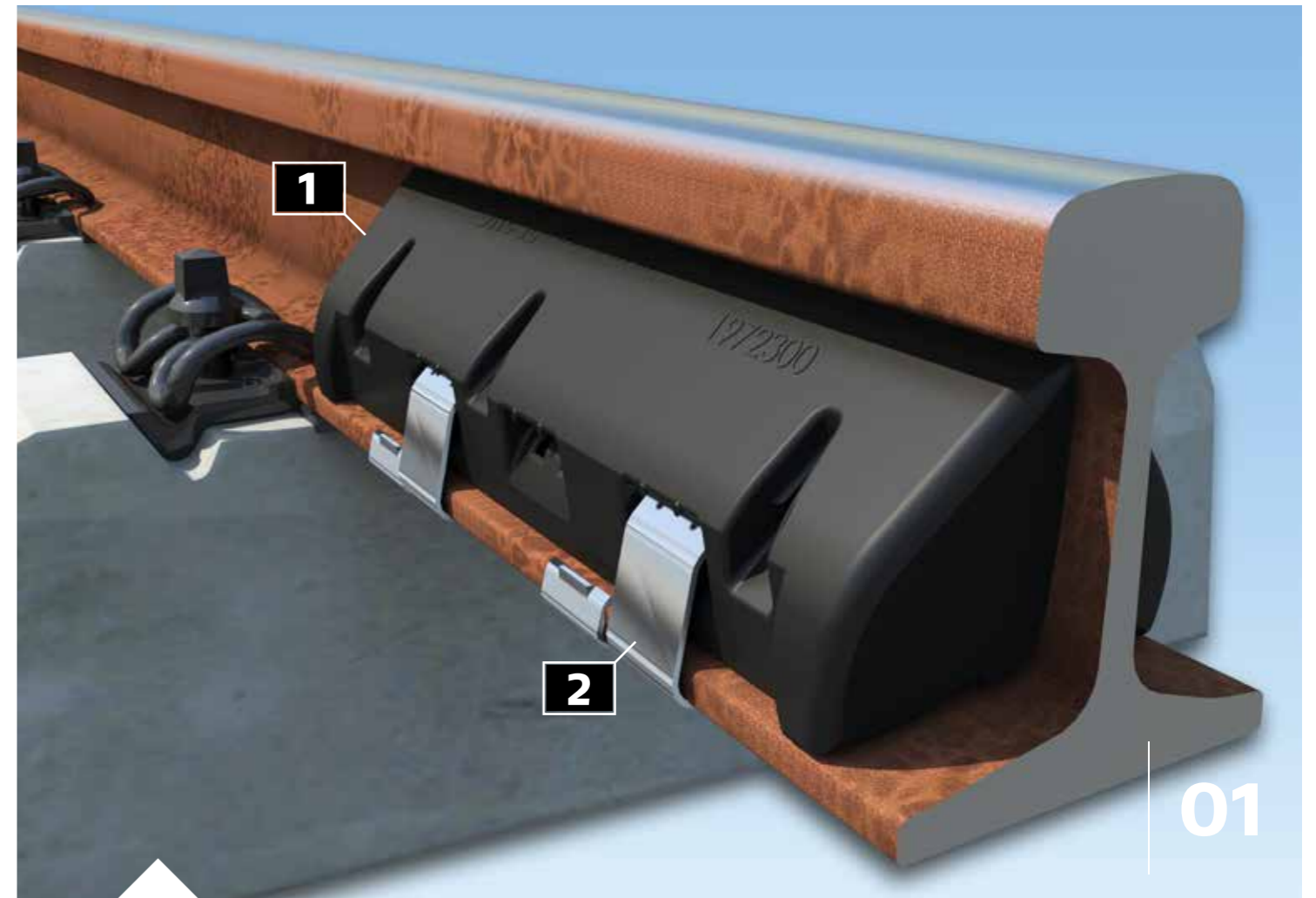
2 STRAILastic_A inox clamp made of stainless steel

- ◆ extremely slim design > tamping now possible in radius curves with the standard tamping machine
- ◆ integrated cutouts for signal cables
- ◆ maintenance-free stainless steel clamp

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INOX



01 : STRAILastic_A inox

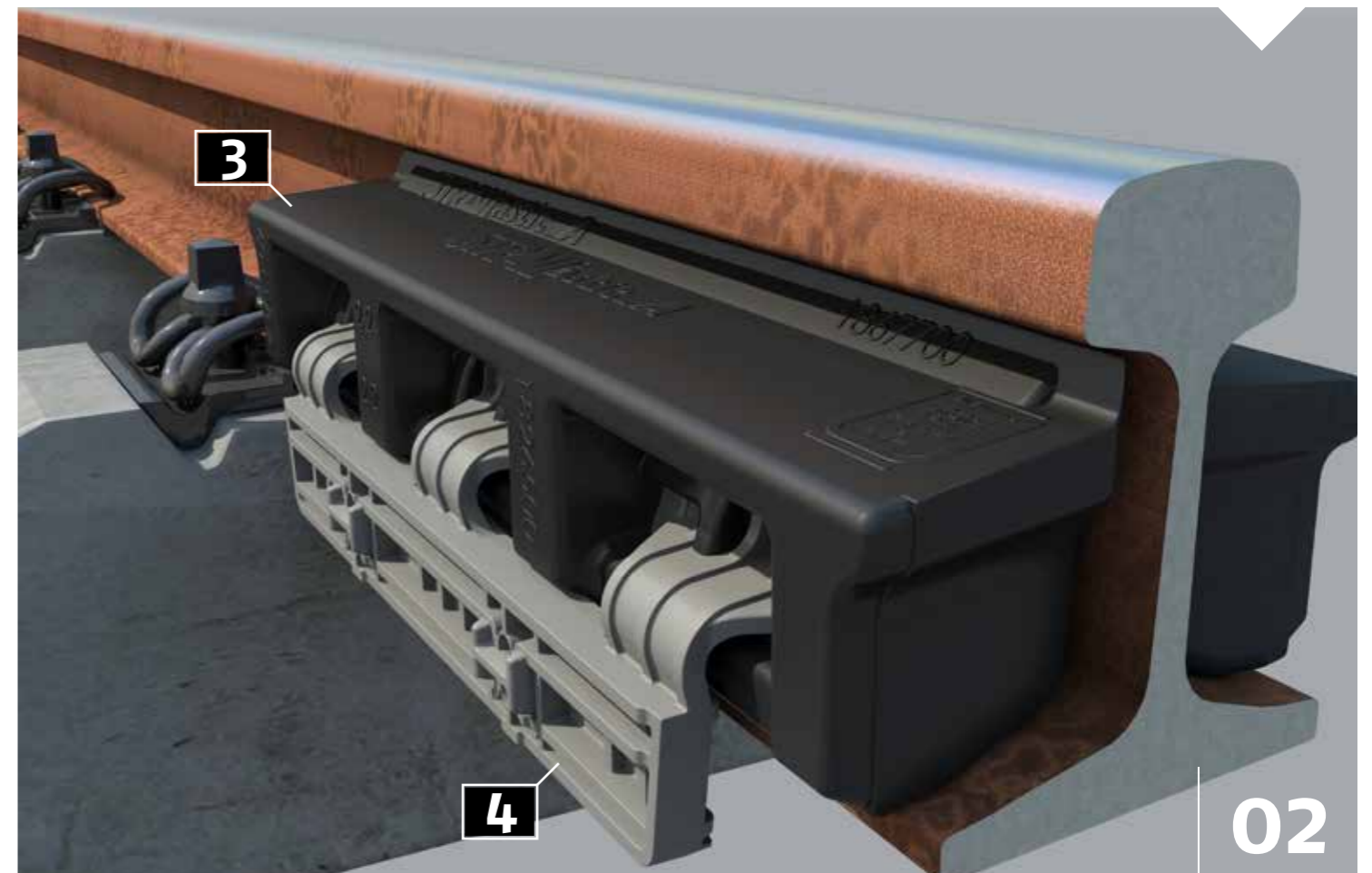
02 : STRAILastic_A synth

3 STRAILastic_A synth absorbers made of a vulcanised rubber mixture > for all common rail types

4 STRAILastic_A synth clamp made of glass fibre reinforced plastic

- ◆ STRAILastic_A synth is 100% metal-free
- ◆ delivery possible with an integrated cut-out for LZB cables (on request, when indicated in order)
- ◆ non-destructive removal possible at all times using special tools > the different parts can be used again

SYNTH



3 | EFFECT

fight noise where it is created!

STRAILastic_A synth & inox – set new standards.

Due to the special production process and the chosen materials, **STRAILastic_A synth & inox** are highly effective for the passive damping of vibrations and noise emissions. The passive damping converts the kinetic energy into heat.

The special **STRAILastic_A** fixing set ensures a steady connection of the rail and the absorber.

STRAILastic_A coating is used for sealing the connection.

STRAILastic_A synth & inox set new standards and follow the motto: **fight noise where it is created!**

STRAILastic_A synth – test report from Sweden >

At the Roslagsbanan near Stockholm, noise and vibration measurements were made to examine the effect of wheel dampers and rail web dampers as a noise reduction measure. The operators of the Roslagsbanan had to achieve a noise-related improvement of approx. 3.5 dB(A) because of the previous change from wooden sleepers to concrete sleepers and the resulting in a too high noise level.

Measurements were made at two measurement sites (straight track and curved track) and on four occasions. The measurements investigated the following parameters: wheel dampers alone, **STRAILastic_A synth** alone and both combined.

The damped wheels achieved an average improvement of 1.1 dB(A) units.

The measurement of the combination achieved therefore an average of 3.8 dB(A) units.

01 : STRAILastic_A test in Sweden



4 | INSTALLATION

STRAILastic_A – easy & quick installation.

Installation is carried out in a quick and cost-effective manner using **STRAILastic_A** assembly aids, regardless of weather conditions.

Both systems can be installed during check intervals as well as during on-going operation, provided that train breaks (time window) which are longer than approx. five minutes are available.

Temporary removal for rail welding work is trouble-free and possible at any time. There is no need to dismantle the elements when tamping the tracks!

Control and/or survey work of rail fastenings are not affected or hampered.

- ◆ quick and simple handling
- ◆ maintenance-free > no follow-up costs
- ◆ no obstruction of standard track maintenance work
- ◆ permanent fastening with **STRAILastic_A synth** or **inox** clamps

02 : STRAILastic_A synth / the suitability of all system compounds is the main test object of the technical approval procedure of the Deutsche Bahn AG (= technical announcement of DB – German Railway-approval procedure).



02


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STRAIL[®]lastic
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- / track damping systems / Gleisdämmsysteme

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STRAIL & STRAILlastic are brands of the  group.