

STRAIL[®]astic

quiet.





street meets rail.



the gentle track.



we think green.



KRAIBURG Company

With approx. 2000 employees and a total turnover (2014) of €480 Million.

KRAIBURG STRAIL GmbH & Co. KG

Division STRAIL – level crossing systems

- developed over 30 years ago
- approx. 40,000 installations in 50 countries

Division STRAILastic – track damping and isolating systems

- reduces noise and vibration emitted from the track
- excellent stray current isolation
- was developed over 15 years ago
- over 30 years Know How



STRAIL[®]astic > Product range

Solutions for embedded tracks



Green track systems



STRAIL[®]astic
Partner of the Green Track Network



Noise absorbers



Infill panels



MATERIAL

- recycled rubber granules with binder of virgin renewable material
- water absorption under 0,5 % due to high density > immune to freeze/thaw cycles
- operational temperature stability over extreme range (-55° to +90° C)
- short term temperature stability (> 200° C), allows for welding & grinding
- protects against stray current corrosion and transmission of vibration
- long service life since indestructible and resistant to all chemicals commonly used in a traffic-related setting
- environmentally friendly as it is made of recycled rubber granulate and can be recycled after the removal

PROCESS

- vulcanization using high pressure and temperature, delivers dimensional stability

INSTALLATION

- glue free assembly => flexible profile, can accommodate tight radii, can be pre-fitted to rail



STRAILastic vulcanized and UV-light/ozone resistant profiles

Berlin 2013 (STRAILastic installation 2001)



vs. Polyurethane bonded profiles

Berlin 2013 (installation 2003)



STRAILastic vulcanized and UV-light/ozone resistant profiles

Düsseldorf 2013 (STRAILastic installation 2012)



vs. Polyurethane bonded profiles

Düsseldorf 2013 (installation 2012)



track damping systems



STRAILastic is a brand of the



group.

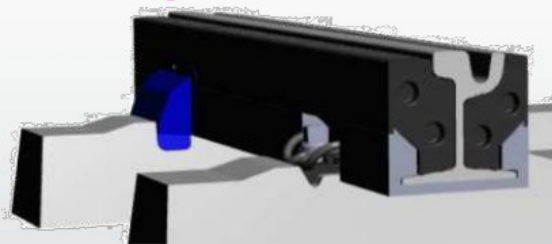
> Top of Rail Solutions | BENEFITS

- **Quality solutions made of hot vulcanized rubber**
 - => *External finish in virgin rubber*
 - => *Low degradation (UV, abrasion, etc.) of the profiles*
- **Reduced track installation time and cost**
 - => *Self clamping profiles even in curves*
 - => *Pre-assembly possible*
- **Life cycle cost optimization**
 - => *Low maintenance due to the absence of joint sealant*
 - => *Resistant to track maintenance operations (grinding, etc.)*
 - => *Easy disposal as fully recyclable*
- **Long life of the system**
 - => *Examples over 15 years*



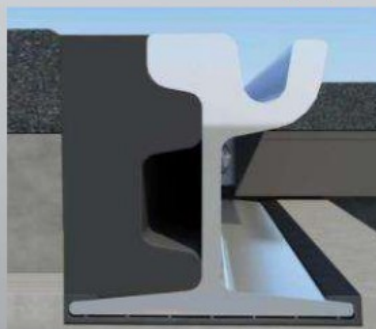
STRAIL[®]astic *SYSTEM TOR* TRAM

> For tracks based on sleepers or baseplates



STRAIL[®]astic *SYSTEM TOR SIMPLEX* TRAM

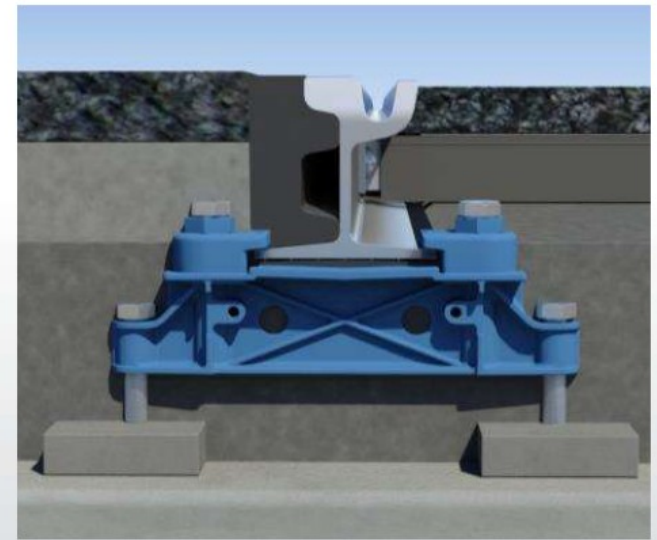
> Specified for tracks on continuous support



STRAIL[®]astic_GRS

„We help you to reduce construction periods“

- completely pre-installed rail bedding system
- simple alignment
- cast in concrete without the use of an additional levelling course



green track systems



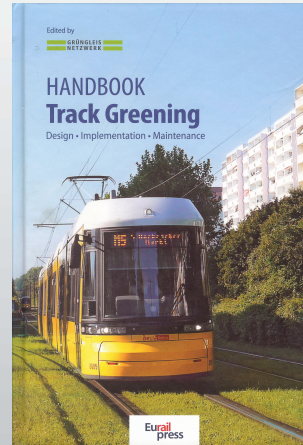
STRAIlastic is a brand of the



group.

> Green Track Systems | BENEFITS

- **Quality solutions made of hot vulcanized rubber**
 - => *External finish in virgin rubber, UV and ozone resistance*
 - => *Tongue / Groove connection (option)*
 - => *Optimised stray current isolation*
- **Maintenance cost optimisation**
 - => *Easy access to rail and fastenings*
 - => *Smooth surface easy to clean*
 - => *Fully reusable and recyclable*
- **Versatile solutions**
 - => *Adaptable to track construction systems*
 - => *Can be driven over for emergency & service access*
- **Operational experience - over 15 years**





> Green Track Systems

STRAILastic TRAM *R-TYPE AUGSBURG*



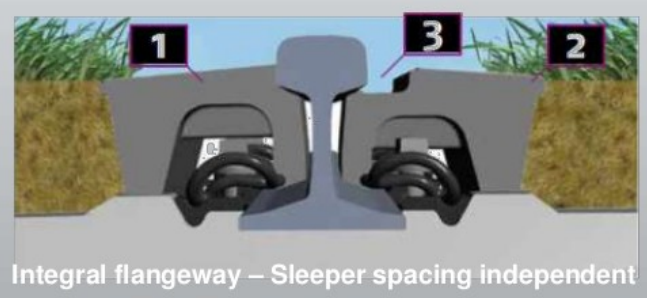
STRAILastic TRAM *R-TYPE ZURICH*



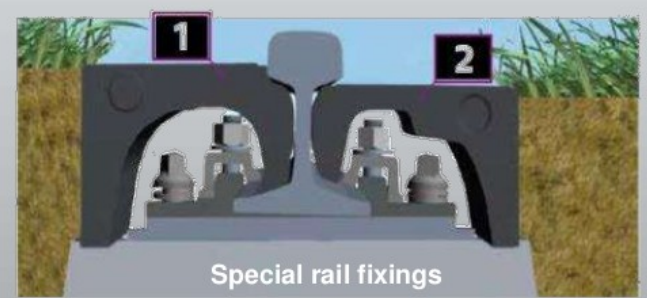
STRAILastic TRAM *R-TYPE BERLIN*



STRAILastic TRAM *R-TYPE BREMEN*



STRAILastic TRAM *R-TYPE BIELEFELD*



Projects and Other Products



STRAILastic TOR Simplex + GRS

Poland, Gdansk – Installation 2014



STRAILastic TOR Simplex + GRS

| | |
|--------------------------|-----------------|
| Installation year | 2014 |
| Track length | 2.128m |
| Country / city | Poland / Gdańsk |
| Customer | ZKM Gdańsk |
| Upperstructure | Asphalt |
| Traffic | Road traffic |

STRAILastic TOR Simplex + GRS

Sweden, Gothenburg – Installation 2014



STRAILastic TOR Simplex + GRS

| | |
|-------------------|---------------------|
| Installation year | 2014 |
| Track length | 735m |
| Country / city | Sweden / Gothenburg |
| Customer | Västrafik |
| Upperstructure | Asphalt / Pavement |
| Traffic | Road traffic |

STRAILastic TOR Simplex

Austria, Vienna – Installation 2015



STRAILastic TOR Simplex

| | |
|-------------------|------------------|
| Installation year | 2013-2016 |
| Track length | 5.710m |
| Country / city | Austria / Vienna |
| Customer | Wiener Linien |
| Upperstructure | Concrete |
| Traffic | Road traffic |

STRAILastic TOR System Aarhus (*W-tram*) Denmark, Aarhus – Installation 2015



STRAILastic TOR System Aarhus

| | |
|-------------------|-------------------------|
| Installation year | 2015 |
| Track length | 16.120m |
| Country / city | Denmark / Aarhus |
| Customer | Aarhus Letbane |
| Upperstructure | Grass / Asphalt |
| Traffic | Green track & crossings |

STRAILastic TOR Simplex

Germany, Freiburg – Installation 2016



STRAILastic TOR Simplex

| | |
|-------------------|------------------------|
| Installation year | 2016 |
| Track length | 180m |
| Country / city | Germany / Freiburg |
| Customer | Freiburger Verkehrs AG |
| Upperstructure | Pavement |
| Traffic | Pedestrian area |

www.strail.com / www.strailastic.com



pedeSOLAR

Project report / Tangley Foot crossing, UK

Subject to technical changes / August 2014



STRAIL® level crossing systems / STRAILastic track damping systems
 KRAIBURG STRAIL® GmbH & Co. KG · D-84529 Tittmoning · Goellstrasse 8
 Phone + 49 / (0) 86 83 / 7 01-0 · Fax + 49 / (0) 86 83 / 7 01-126 · info@strail.de · www.strail.com · www.strailastic.com



www.strail.com / www.strailastic.com



veloSTRAIL rap - Inspection Instructions

replaceable flangeway element



Subject to technical changes / May 2014 / JBA



STRAIL® level crossing systems / STRAILastic track damping systems
 KRAIBURG STRAIL® GmbH & Co. KG · D-84529 Tittmoning · Goellstrasse 8
 Phone + 49 / (0) 86 83 / 7 01-0 · Fax + 49 / (0) 86 83 / 7 01-126 · info@strail.de · www.strail.com · www.strailastic.com

*Thank you
for your attention*



For further information

STRAIL UK – richard@srsrailuk.co.uk

STRAILastic – cedric.otzenberger@strailastic.de

STRAIL[®]astic

- / track damping systems / Gleisdämmsysteme

KRAIBURG STRAIL[®] GmbH & Co. KG / STRAIL[®] level crossing systems & STRAILastic track damping systems
D-84529 Tittmoning / Goellstrasse 8 / phone +49(0)86 83(7)01-0 / fax -126

STRAIL & STRAILastic are brands of the  **KRAIBURG** group.