

RCS® meets RAILFIX comb

BERA® RailFix is an innovative modular system for permanently green and trafficable tram tracks. High-strength cellular modules retain water, support drainage and provide a stable surface even during dry periods, heavy rainfall, snowmelt or frost.

- Captures and reduces particulate matter & promotes biodiversity
- Reduces maintenance costs for tram operators
- Mitigates the urban heat island (UHI) effect and cools the air
- Improves drainage and stormwater management
- Effective noise reduction of 5 to 8 dB(A)
- Trafficable for vehicles with loads of > 300 t/m²
- High level of stray current insulation (insulator conductance: 0.01 S/km)

GREATER COMFORT FOR PASSENGERS AND RESIDENTS

RailFix reduces perceptible rail noise by 5 to 8 dB(A). In combination with the SEALABLE RCS®, the transmission of structure-borne noise into adjacent buildings is also significantly reduced. The result: less noise, greater travel comfort and a better quality of life along the route. At 63 Hz, the insulation system achieves an additional reduction in structure-borne noise of up to 10 dB.

A BETTER URBAN CLIMATE

RailFix retains rainwater, makes it available to the vegetation as needed and reliably drains excess water. Natural evaporation provides a cooling effect, helps relieve drainage systems during heavy rainfall and further improves the urban microclimate by capturing particulate matter.



SEALABLE pioneers in profiles

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CLEAR ACCESS FOR EMERGENCY AND SERVICE VEHICLES

RailFix provides a permanently stable, safely trafficable green track system, even for heavy emergency and service vehicles. The 130 mm high cellular module (Type L) achieves a tested load-bearing capacity of 137 to 150 t/m² even when unfilled. When filled with gravel or chippings, a load-bearing capacity of well over 300 t/m² is expected.

CORROSION PROTECTION FOR RAILS AND INFRASTRUCTURE

The SEALABLE RCS® insulates the rail from the adjacent track superstructure and minimizes harmful stray currents. This provides long-term protection against electrochemical corrosion for rails, reinforcement and surrounding infrastructure. With a conductance per unit length of just 0.01 S/km, the system is well below the limit of 2.5 S/km.

NO MORE MOWING

The sedum planting eliminates the need for regular mowing and reduces maintenance requirements. Thanks to the integrated lifting device, RailFix modules can be quickly removed and reinstalled when repairs are required. The heat-resistant RCS® also allows rail reprofiling and build-up welding without removing the insulation.

RAILFIX - Technical Data	
Material	100% recyceltes Polypropylen, 100% recycelbar
Manufacturing process	Precision injection moulding
Manufacturing standards	ISO 9001, 16949 Lloyds, REACH, EPD
Manufacturing country	EU
Load-bearing capacity	> 300 t/m²
Water permeability	EN ISO 11058 : 180 Litre/(m²/s)
UV and frost resistance	yes

RCS® - Technical Data	
Material	NR/BR or SBR/BR
Manufacturing process	Extrusion
Manufacturing standards	REACH, EPD, DIN EN ISO 9001, DIN EN ISO 14001 and 50001, DIN EN ISO 45001
Manufacturing country	DE
Mould resistance	yes (DIN 45673-8)
Rot resistance	yes (DIN 45673-8)
UV and frost resistance	yes (DIN ISO 1431-1)
Heat resistance	temporarily above 270° C
Hardness (Shore A)	60 -65 (DIN ISO 7619)
Electrical conductivity	0.01 S/km (DIN IEC 62631-3-1, DIN EN 50122-2 reference 2.5 S/km)

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