TECHNICAL DATA

Protrack Set

Vibration insulation in railways and tramways

Product description and Technical Specification

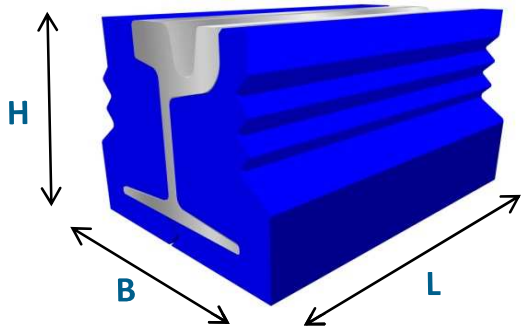
Left and right side profile for rail systems. produced using fibres and granules of SBR rubber (Styrene Butadiene Rubber) or EPDM rubber (Ethylene Propylene Diene Monomer) selected and compacted using polyurethane glue by pressing process; 750 mm lenght, 800-900 kg/m³ density.

- **Acoustic and electric insulation**
- **Easy to lay, to substitute and to maintain**
- **Protection of pavements for single or crossing tracks**

AREA OF APPLICATION	
– Vibration and acustic rail insulation – Electric rail insulation	– Protection against corrosion of the rails – Junction between track and road

PHYSICAL CHARACTERISTICS	Unit	M	H	Tolerance
Density	kg/m³	800	900	± 5%
Colour		black		
Length (L)	mm	750		± 1%

The base (B) and height (H) depends on the type of rail



TECHNICAL CHARACTERISTICS	Norm	Unit	M	H	Tolerance
Stiffness characteristic		MN/m/m	43	62	± 10%
Water absorption	DIN 52103/A		≤ 2%		
Frost strength test with water	DIN 52104/B		< 1%		
Elongation at break	DIN 53455		> 50%		
Hardness	ASTM D2240	Shore A	70		± 10%
Electrical resistance	UNI 5572	Ω x cm	≥ 10^8		
Inflammability	DIN 4102		B2		

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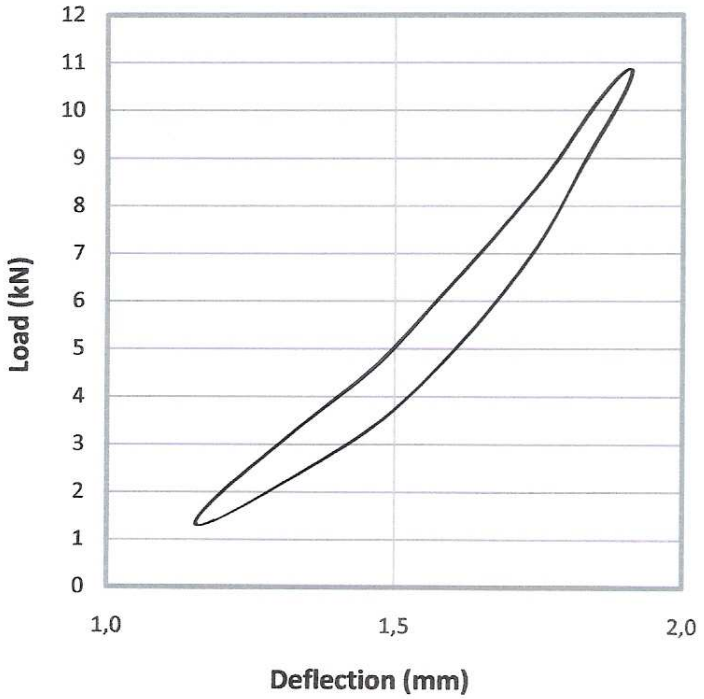
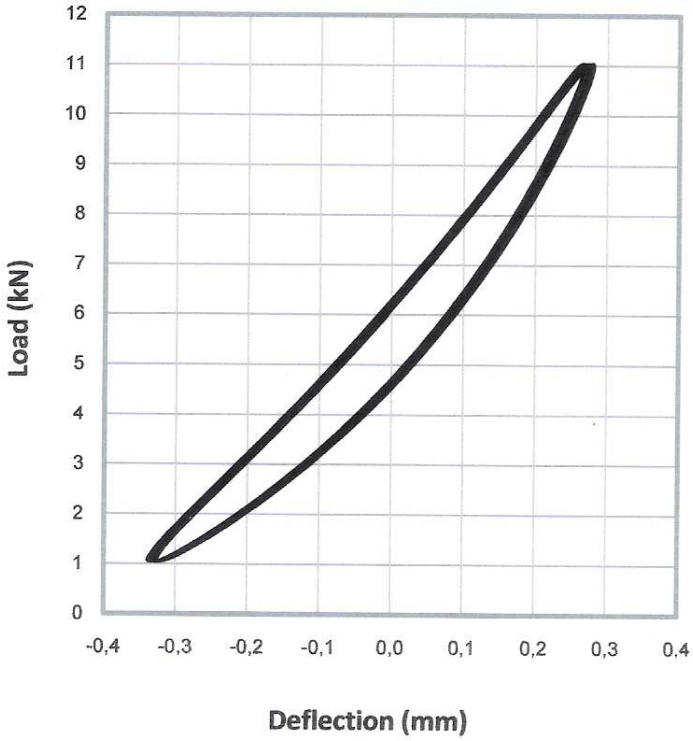
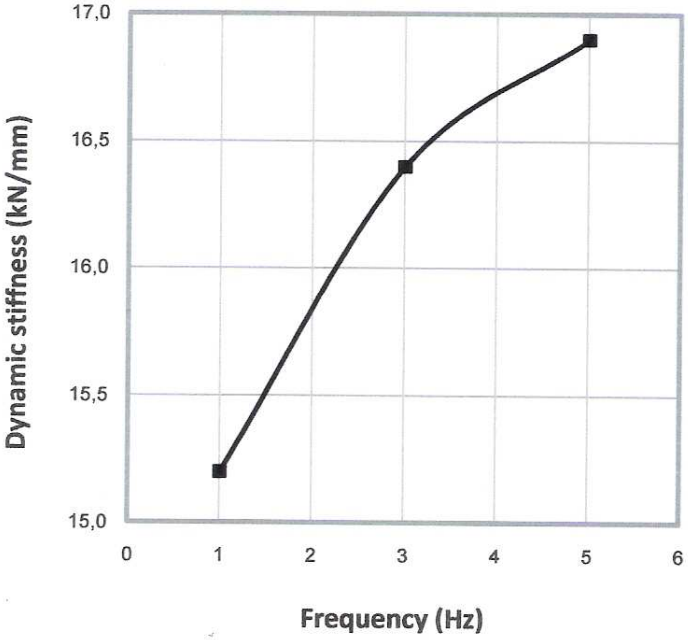
Quasi-static stiffness - Embedded system vertical 0°



Maximum load = F_{max} = 11 kN
Quasi-static stiffness = k_{qs} = 12,80 kN/mm

Dynamic stiffness - Embedded system vertical 0°





Maximum load = F_{max} = 11 kN
Dynamic stiffness = k_{qs} = 16,42 kN/mm

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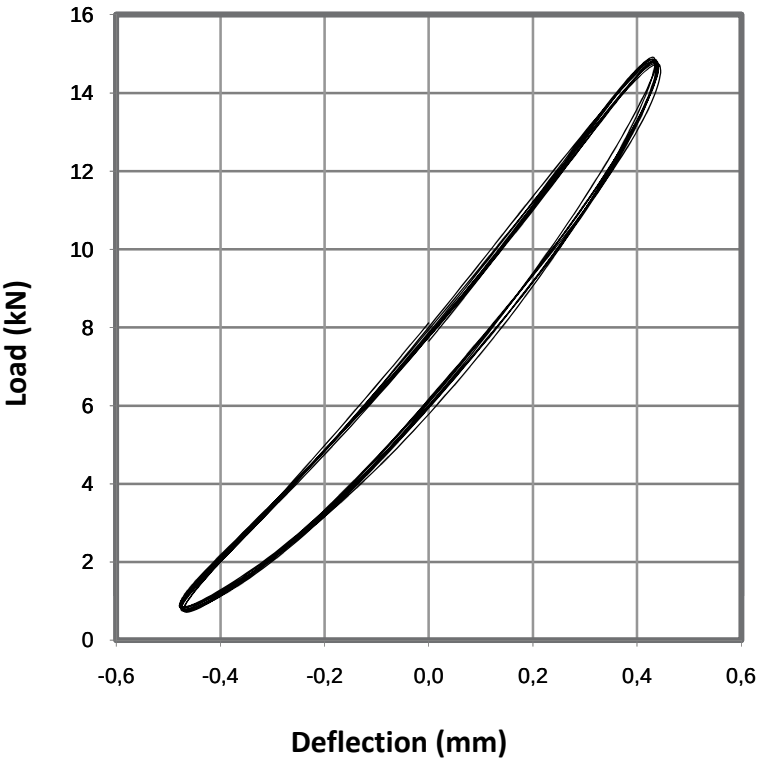
TECHNICAL DATA

Protrack Set

Vibration insulation in railways and tramways

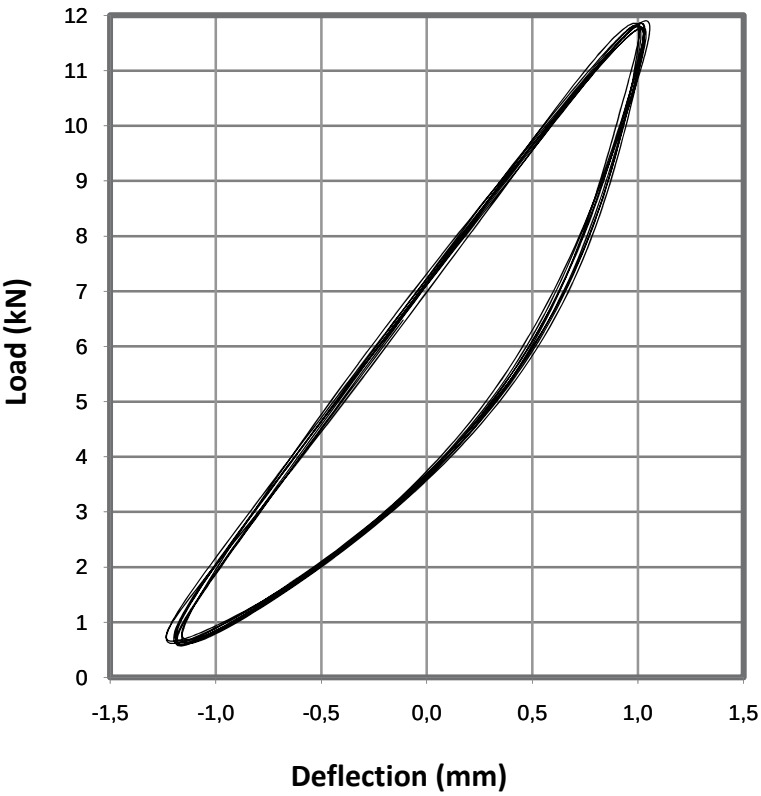
Vertical dynamic stiffness - Embedded system inclination 38,6°

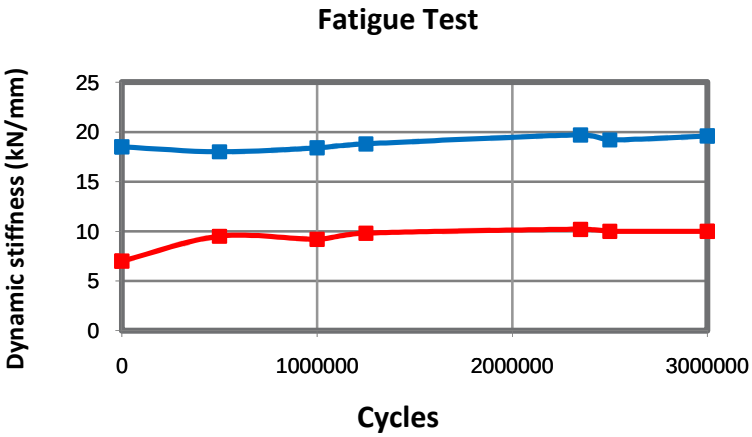


Vertical hysteresis cycles to 3 Hz

k_d vertical = 15,42 kN/mm

Lateral dynamic stiffness - Embedded system inclination 38,6°





	k_d vertical		k_d lateral
Variation of the static stiffness post fatigue			
	9,28%		< 25%
Variation of the dynamic stiffness post fatigue			
	9,28%		< 25%

Vertical hysteresis cycles to 3 Hz

k_d lateral = 4,82 kN/mm

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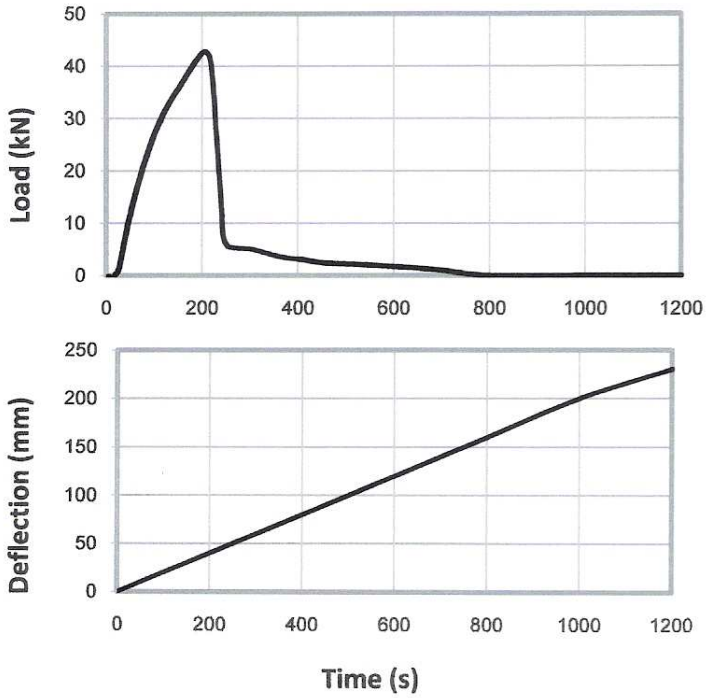
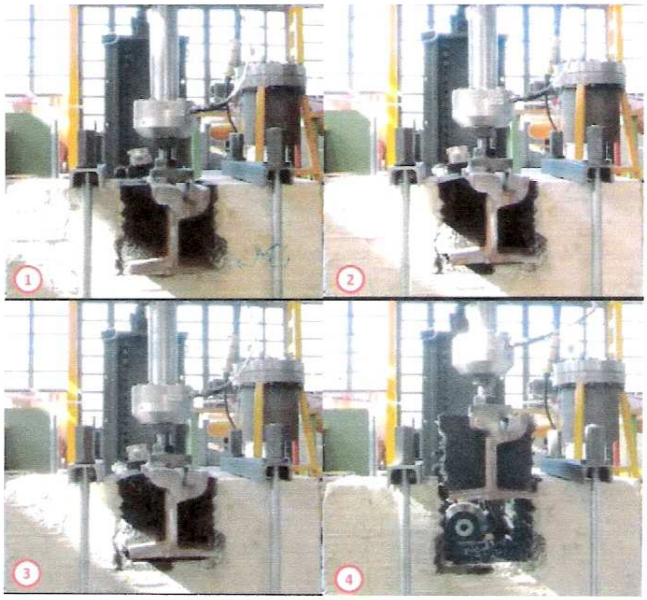
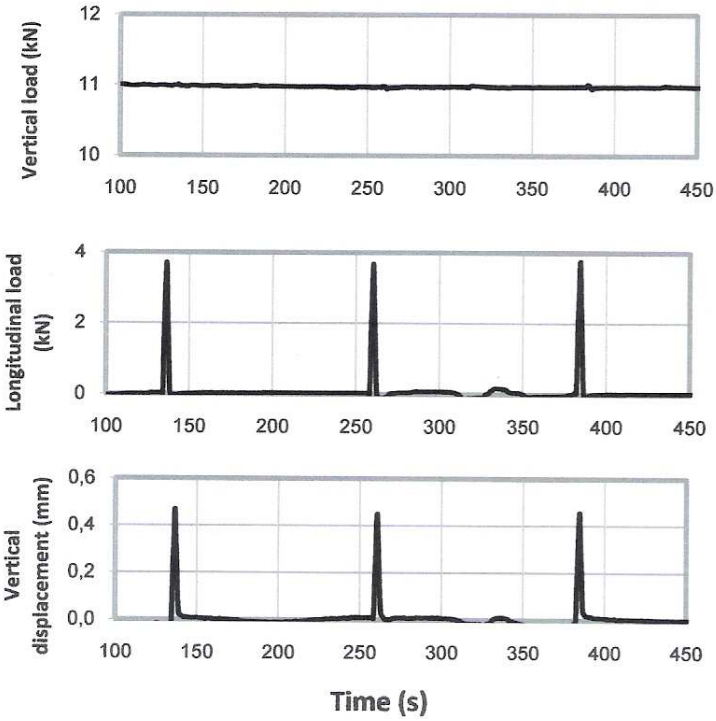
Vertical pull-out





F_{max} = 43 kN

Longitudinal stiffness



k longitudinal = 7,95 kN/mm

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