



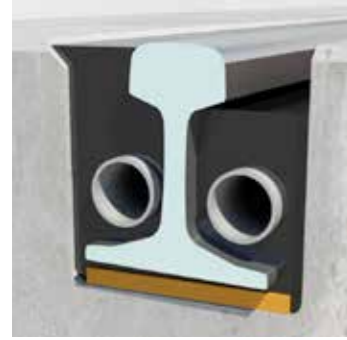
Vibration attenuation with **edilon)(sedra** rail track systems and products



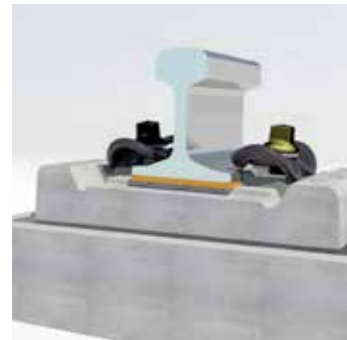
Always a step ahead
in rail systems!

edilon)(sedra
www.edilonsedra.com

Vibration attenuation with edilon)(sedra rail track systems and products



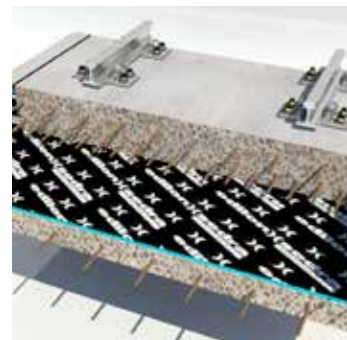
edilon)(sedra ERS (Embedded Rail System)
 edilon)(sedra ERS is a continuous rail track system for slab track, particularly suitable for paved-in track, bridges and tunnels. The track resonance frequency combined with this system alone can be as low as 25 Hz. edilon)(sedra Corkelast® embedding material and edilon)(sedra Trackelast® rail strip products turn the strong and elastic rail fastening system into a durable absorber for mid- and high-frequency vibrations. edilon)(sedra ERS is completely eliminating variation in support elasticity, which is beneficial for wheel-rail interaction and therefore delaying rail corrugation and wear.



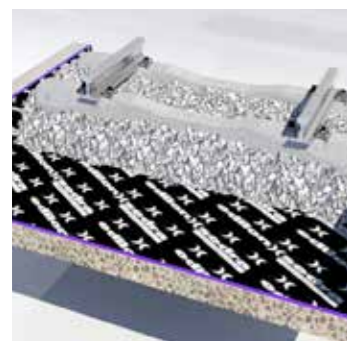
edilon)(sedra EBS (Embedded Block System)
 edilon)(sedra EBS is a discrete rail track system for slab track, particularly suitable for elevated structures and tunnels. The track resonance frequency can achieve a value of 20 Hz depending on the type of (booted) block. edilon)(sedra Corkelast® embedding material and edilon)(sedra Trackelast® pad products in combination with suspended concrete blocks turn the 2-level elastic rail track system into a durable absorber for mid- and high-frequency vibrations. edilon)(sedra EBS is offering more suspended mass than other rail track systems, which reduces structure and ground born vibration and resulting noise effectively.



edilon)(sedra SDS-M (Modular Sound Damping System)
 edilon)(sedra SDS-M is a continuous rail track system for slab track, particularly suitable for paved-in track for light rail. The track resonance frequency combined with this system alone can be as low as 30 Hz. Fillerblock and Trackelast® rail clamping strip products turn the rail track system into a durable absorber for mid- and high-frequency vibrations. edilon)(sedra SDS-M is eliminating variation in support elasticity, which is beneficial for wheel-rail interaction and therefore delaying rail corrugation and wear.



edilon)(sedra Trackelast® STM (Slab Track Mats)
 edilon)(sedra Trackelast® STM is developed for use in floating slab track, in particular for light rail tracks with single fastening supports that offer only a poor vibration reduction by itself. The track resonance frequency combined with this system alone can be as low as 10 Hz. edilon)(sedra Trackelast® STM enables an easy installation under in-situ cast concrete slabs. edilon)(sedra Trackelast® STM creates a track with higher elasticity, providing a better insulation of mechanical vibrations and reducing ground and structure-borne noise and vibrations.



edilon)(sedra Trackelast® SBM (Sub Ballast Mats)
 edilon)(sedra Trackelast® SBM is developed for use in ballasted track, under the ballast bed and on top of a rigid substructure (e.g. a concrete floor or a cement treated base). edilon)(sedra Trackelast® SBM can reduce the resonance frequency down to 20 Hz, where normally 50 Hz applies. The mats create a track with higher elasticity, providing a better insulation of mechanical vibrations to the surroundings of the track and reducing ballast degradation. The higher level of insulation is reflected in a lower resonance frequency of the track panel. edilon)(sedra Trackelast® SBM is developed for light and heavy rail.

Resonance frequencies

25 Hz +

20 Hz +

30 Hz +

10 - 25 Hz

20 - 40 Hz

Insertion loss

Level 2

more than 20 dB insertion loss at 63Hz

Level 1

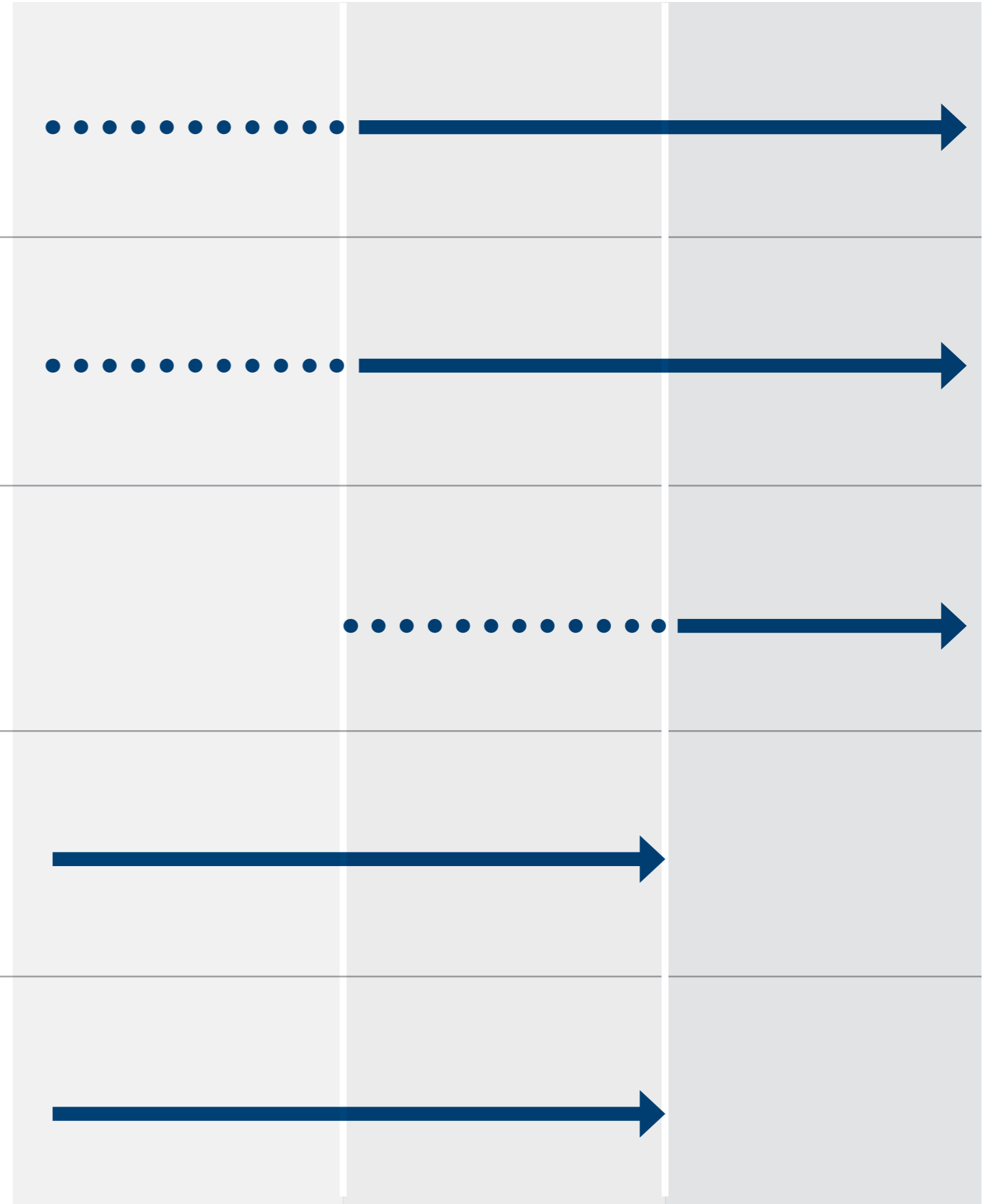
10-20 dB insertion loss at 63Hz

Level 0

Less than 10 dB insertion loss at 63Hz

Actual values

Potential values (depending on conditions)



edilon)(sedra rail systems for both light and heavy rail



Applications:

-)) Level crossings
-)) In street tracks
-)) Stations, tunnels, bridges, viaducts
-)) Depots, washing plants, work shops
-)) Industry & crane tracks



watch us on
YouTube

For more information please contact our Territory Sales Offices @ www.edilonsedra.com