

Vector™

Embedded rail system

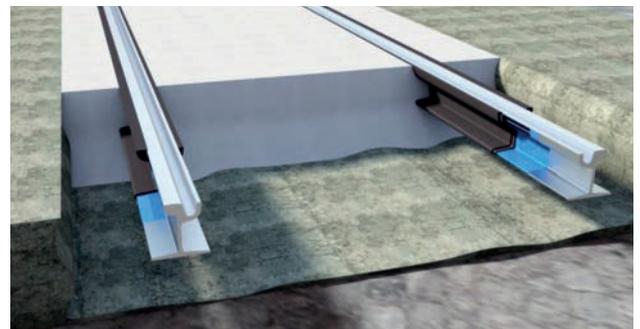
Modern rail systems have to respond to increasing demands to reduce or eliminate potential adverse environmental impacts such as noise and vibration. This is particularly true for light rail systems. Trelleborg has established a range of second generation vibration control solutions for constructing urban railways and metro networks.

Based on Trelleborg's unique capacity to design and manufacture advanced 3D microcellular polyurethane components these solutions cover embedded rail, low vibration track elements, sleeper mats, ballast mats and slab track bearings and mats.

The Vector™ embedded rail system is based on a high performance one piece molded rail boot fitted to the rail to provide cost-effective ground borne vibration mitigation and stray current isolation.

The Vector™ Boot is a 3-dimensional object designed to offer compressibility without complex cavities or ribs. The accuracy of the molding ensures there are no voids within the boot to collect water or debris preventing corrosion.

The profile and material density of the Vector™ Boot is adjustable, providing the optimal combination of firm lateral support with low vertical stiffness to enhance vibration attenuation.



Vector™ Embedded Rail Track

The Vector™ Boot incorporates features to simplify and improve the integrity of jointing between lengths of rail boot enabling delivery of long lengths and to ensure that the most stringent electrical isolation requirements for modern light rail systems are met.

Both initial and long term stray current isolation performance can be further enhanced by adding an optional inner electrical insulation coating applied to the rail.

The Vector™ Boot can be designed to include other functional details, such as skid resistance and wheel overrun protection, avoiding the cost and construction complexity of pour-in-situ alternatives.

With the Trelleborg 'Fast-Fix' methodology, the Vector™ system also offers a simple, cost effective construction compared to similar market solutions.

Vector™ System Benefits:

- Durable, resilient track support combined with the highest levels of electrical insulation
- Designed resilience offering a higher degree of vibration isolation, where required
- Simplified assembly and installation
- 30+ year design life
- A solution proven in service worldwide
- Lower overall cost



Typical Embedded Track



Vector™ Assembled Embedded Rail

Contact Us

Trelleborg's Applied Technologies division is an industry expert in delivering innovative and reliable solutions that maximize performance for our customers. Our vast range of specialized, customizable materials ensure peace of mind at every stage of your project. With reliable and efficient project management and manufacturing we endeavor to take performance to new levels by achieving your goals safely, on time and within scope.

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