

APT_BT RAIL FASTENING SYSTEM

Undertie pads are effective for reducing structure borne noise and vibrations.

The patented APT_BT systems for ballasted track are superior to other systems. They include elastomer pads with a low dynamic to static spring rate which are protected by a reinforced boot against damage from tamping operations.

Their vibration mitigation performance is drastically improved by the use of a rigid layer inside the boot. This rigid layer is inserted under the elastomer pad. It ensures a homogeneous load distribution in the elastomer and hence an optimal functioning of the elastomer. This homogeneous load distribution cannot be achieved by a single elastomer pad resting on ballast.

The APT_BT systems are used with wooden and concrete ties as well in tangent track as with special trackworks (crossings, turnouts, ...).

The APT_BT systems can be pre-installed on new ties or installed onto existing ties on site.

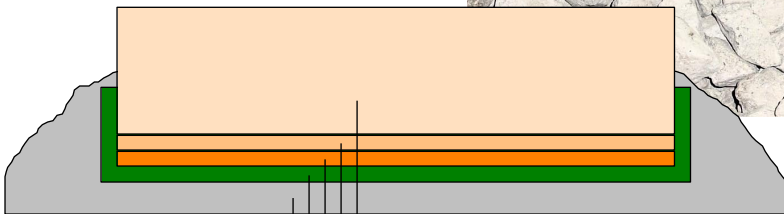
The APT booted undertie pads reduce the transmission of structure borne noise and vibrations with controlled rail displacements.

PERFORMANCE

- average vibration reduction of 10 dB also when used with special trackwork, in comparison with ballasted track;
- controlled vertical and horizontal rail displacements (below 1, 2 or 3 mm according to the system specifications);
- long term performance due to protection by reinforced boot.

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MAIN COMPONENTS



- tie
- elastomer
- rigid layer
- boot
- ballast

