

Noise and Vibration

Abatement measures for noise and vibration impacts will be considered and utilized depending on effectiveness, cost, constructability, and other factors.

High Speed Train Noise Mitigation

Measures to reduce noise impacts from steel-wheeled high-speed rail systems include:

- Design and maintenance techniques to minimize noise generation
- Installation of noise barriers, such as sound walls or earthen berms

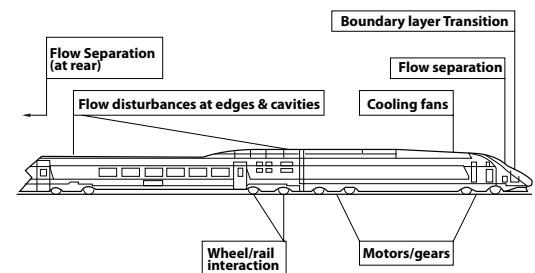
Replacing at-grade roadway-rail crossings with bridges or overpasses can also reduce noise by removing the need for trains to use their horns.

High Speed Train Vibration Mitigation

Special track support systems can be used to reduce vibration impacts from steel-wheeled high-speed. Examples include:

- Floating slab track bed – rail is mounted on a concrete track slab instead of ballast (crushed rock)
- Ballast mats - a rubber or other type of pad that is placed under the ballast
- High resilience fasteners – fasteners used to fasten the rail to concrete track slabs

Noise Sources on a Steel-Wheeled High-Speed Train System



How High-Speed Train Vibrations Reach Buildings

