

- 2.6 The findings of the assessment (reported in the Environmental Statement) show that adoption of these measures is likely to result in the criteria for the performance specification for residential buildings, offices, hotels, schools, colleges, hospitals, laboratories and libraries not being breached at any location during the construction of Crossrail.
- 2.7 The nominated undertaker will endeavour to ensure that the groundborne noise from the operation of the temporary construction railway that is experienced by any theatre, large auditorium/concert hall, studio, church, court, lecture theatre or small auditorium/hall, does not exceed levels greater than those it is already subject to by the presence of London Underground, other railway and road transport operations, or the levels listed in Table 1, whichever is the higher noise level during the periods for which the buildings are in use.
- 2.8 During operation, the following measures were assumed to be available:
- standard trackform design to use continuously welded rail;
  - the rails in tunnels will be supported on resilient track support systems, and track installation will be carried out using modern technology to achieve very much more accurately laid and smoother track than exists in traditional tube tunnels.
  - floating slab track or similar technology, where it is predicted that standard trackform would result in the criteria in Table 1 being breached.
- 2.9 The nominated undertaker will be required to design the permanent track support system so that the level of groundborne noise near the centre of any noise-sensitive room is predicted in all reasonably foreseeable circumstances not to exceed the levels in Table 1. The nominated undertaker will be required to install the permanent track using a standard rail and/or track support system for the Crossrail tunnel sections. In any location where the standard system is predicted during detailed design to cause levels of groundborne noise exceeding the relevant assessment criterion an enhanced track support system will be installed.
- 2.10 The nominated undertaker will put in place measures that will ensure that the track of the underground sections and the wheels of the vehicles operating the Crossrail passenger service are maintained in a state which under all reasonably foreseeable circumstances will lead to adequate control of groundborne noise and vibration arising from the railway. Prior to opening, the nominated undertaker will ensure that the rails of the underground sections of Crossrail are conditioned by grinding, or other suitable means, and are appropriately maintained thereafter.
- 2.11 The findings of the assessment (reported in the Environmental Statement) show that adoption of these measures is likely to result in the criteria for the performance specification not being breached at any location during the operation of Crossrail.
- 2.12 The nominated undertaker will provide to the local authorities, through which the Crossrail tunnels pass details of the type of rail and/or track support system proposed and its predicted performance with respect to vibration and groundborne noise.