

| | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
|---|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B |
| Reference train noise Lmax | 78.0 dB(A) | 0.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) |
| Speed of reference source | 80.0 kph | 0.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph |
| Distance of reference source | 25.0 m | 0.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m |
| Length of train (L) | 68.0 m | 0.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m |
| Lmax (ref) to SEL (ref) | | | | | | | | | | | | | | | | |
| D = d/L | 0.4 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 10 log(L/V) | -0.7 dB(A) | 0.0 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) |
| SEL | 83.3 dB(A) | 0.0 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) |
| Input parameters: | | | | | | | | | | | | | | | | |
| Horizontal distance (perpendicular distance) | 40.3 m | 0.0 m | 62.8 m | 66.8 m | 62.8 m | 66.8 m | 62.8 m | 66.8 m | 61.3 m | 65.8 m | 62.8 m | 66.5 m | 65.8 m | 70.3 m | 67.3 m | 73.3 m |
| Railway Head | 21.2 mPD | 0.0 mPD | 23.3 mPD | 22.1 mPD | 26.1 mPD | 26.2 mPD | 25.7 mPD | 25.5 mPD | 24.6 mPD | 24.6 mPD | 23.8 mPD | 23.8 mPD | 23.3 mPD | 23.2 mPD | 22.5 mPD | 22.4 mPD |
| Effective Source Height | 0.9 m | 0.0 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m |
| Source height | 22.1 mPD | 0.0 mPD | 24.2 mPD | 23.0 mPD | 27.0 mPD | 26.5 mPD | 26.6 mPD | 26.5 mPD | 25.5 mPD | 24.7 mPD | 24.7 mPD | 24.2 mPD | 24.1 mPD | 24.1 mPD | 23.4 mPD | 23.3 mPD |
| Receiver height | 40.7 mPD | 0.0 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD | 40.7 mPD |
| Height difference between receiver and source | 18.6 m | 0.0 m | 16.5 m | 17.7 m | 13.7 m | 13.5 m | 14.1 m | 14.2 m | 15.2 m | 15.2 m | 16.0 m | 16.0 m | 16.5 m | 16.6 m | 17.3 m | 17.4 m |
| Slant distance between receiver and source, (d) | 44.4 m | 0.0 m | 64.9 m | 69.1 m | 64.2 m | 68.1 m | 64.3 m | 68.2 m | 63.1 m | 67.5 m | 64.8 m | 68.4 m | 67.8 m | 72.2 m | 69.5 m | 75.3 m |
| Angle of view (θ) | 2.5 degree | 0.0 degree | 3.0 degree | 3.0 degree | 25.0 degree | 25.0 degree | 33.0 degree | 33.0 degree | 27.0 degree | 27.0 degree | 25.0 degree | 25.0 degree | 16.5 degree | 16.5 degree | 10.5 degree | 10.5 degree |
| Train speed (V) | 70.0 kph | 0.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph |
| Distance correction | -2.5 dB(A) | 0.0 dB(A) | -4.1 dB(A) | -4.4 dB(A) | -4.1 dB(A) | -4.4 dB(A) | -4.1 dB(A) | -4.4 dB(A) | -4.0 dB(A) | -4.3 dB(A) | -4.1 dB(A) | -4.4 dB(A) | -4.3 dB(A) | -4.6 dB(A) | -4.4 dB(A) | -4.8 dB(A) |
| Angle-of-view correction | -18.6 dB(A) | 0.0 dB(A) | -17.8 dB(A) | -17.8 dB(A) | -8.6 dB(A) | -8.6 dB(A) | -7.4 dB(A) | -7.4 dB(A) | -8.2 dB(A) | -8.2 dB(A) | -8.6 dB(A) | -8.6 dB(A) | -10.4 dB(A) | -10.4 dB(A) | -12.3 dB(A) | -12.3 dB(A) |
| Speed correction | -1.2 dB(A) | 0.0 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 0.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) |
| Barrier correction | -2.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.4 dB(A) | 0.0 dB(A) | -4.3 dB(A) | -0.2 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | -16.2 dB(A) |
| SEL (corrected) | 61.7 dB(A) | 0.0 dB(A) | 58.9 dB(A) | 62.9 dB(A) | 68.1 dB(A) | 72.2 dB(A) | 69.3 dB(A) | 73.2 dB(A) | 68.6 dB(A) | 72.6 dB(A) | 68.2 dB(A) | 72.2 dB(A) | 66.1 dB(A) | 70.1 dB(A) | 64.1 dB(A) | 51.8 dB(A) |
| SEL to Leq | | | | | | | | | | | | | | | | |
| Number of trains on each track in 30 mins (N) | 15.0 | 0.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| T = 1800s | 1800.0 s | 0.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s |
| Correction for Train Frequency | -20.8 dB(A) | 0.0 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) | -20.8 dB(A) |
| Facade correction | 2.5 dB(A) | 0.0 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 0.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) |
| Leq of each train direction | 0.0 dB(A) | 0.0 dB(A) | 44.7 dB(A) | 48.6 dB(A) | 53.8 dB(A) | 57.9 dB(A) | 55.0 dB(A) | 58.9 dB(A) | 54.3 dB(A) | 58.3 dB(A) | 53.9 dB(A) | 57.9 dB(A) | 51.9 dB(A) | 55.8 dB(A) | 0.0 dB(A) | 37.5 dB(A) |
| Leq of each segment | 0.0 dB(A) | | 50.1 dB(A) | | 59.3 dB(A) | | 60.4 dB(A) | | 59.7 dB(A) | | 59.3 dB(A) | | 57.3 dB(A) | | 37.5 dB(A) | |
| Total Leq | | | 66.4 dB(A) | | | | | | | | | | | | | |
| Lmax Calculation | | | | | | | | | | | | | | | | |
| Actual Distance | 298.3 m | 0.0 m | 241.3 m | 272.8 m | 164.8 m | 178.3 m | 86.8 m | 94.3 m | 62.0 m | 80.8 m | 58.3 m | 64.3 m | 73.3 m | 79.3 m | 88.3 m | 94.3 m |
| Slant Distance | 298.8 m | 0.0 m | 241.8 m | 273.3 m | 165.3 m | 178.8 m | 87.9 m | 95.3 m | 63.8 m | 82.2 m | 60.4 m | 66.2 m | 75.1 m | 81.0 m | 89.9 m | 95.8 m |
| Distance correction | -21.5 dB(A) | 0.0 dB(A) | -19.7 dB(A) | -20.8 dB(A) | -16.4 dB(A) | -17.1 dB(A) | -10.9 dB(A) | -11.6 dB(A) | -4.1 dB(A) | -10.3 dB(A) | -3.8 dB(A) | -4.2 dB(A) | -9.6 dB(A) | -10.2 dB(A) | -11.1 dB(A) | -11.7 dB(A) |
| Speed correction | -1.7 dB(A) | 0.0 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 0.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) |
| Barrier correction | -2.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.4 dB(A) | 0.0 dB(A) | -4.3 dB(A) | -0.2 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | 0.0 dB(A) | -4.3 dB(A) | -16.2 dB(A) |
| Facade correction | 2.5 dB(A) | 0.0 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 0.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) |
| Lmax of each train direction | 0.0 dB(A) | 0.0 dB(A) | 61.8 dB(A) | 65.0 dB(A) | 65.0 dB(A) | 68.7 dB(A) | 70.5 dB(A) | 73.9 dB(A) | 77.4 dB(A) | 75.4 dB(A) | 77.7 dB(A) | 81.5 dB(A) | 71.9 dB(A) | 75.6 dB(A) | 0.0 dB(A) | 57.9 dB(A) |
| Lmax of S/B track | | | 77.7 dB(A) | | | | | | | | | | | | | |
| Lmax of N/B track | | | 81.5 dB(A) | | | | | | | | | | | | | |
| Lmax, combined (distance corrected) | | | 83.0 dB(A) | | | | | | | | | | | | | |
| Twin Track | | | | | | | | | | | | | | | | |
| Horizontal distance from centreline to receiver | 42.0 m | 0.0 m | 64.5 m | 68.5 m | 64.5 m | 68.5 m | 64.5 m | 68.5 m | 63.0 m | 67.5 m | 64.5 m | 68.3 m | 67.5 m | 72.0 m | 69.0 m | 75.0 m |
| Parapet height | 2.0 m | 0.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m |
| Noise barrier height (above parapet) | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m | 0.0 m |
| Overall height (with barrier) | 2.0 m | 0.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m |
| Source height | 0.9 m | 0.0 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m |
| Railway head height | 0.56 m | 0.00 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m |
| Railway head to parapet | 2.05 m | 0.00 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m |
| Centreline to railway head | 0.8 m | 0.0 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m |
| Parapet to receiver | 38.2 m | 0.0 m | 60.7 m | 59.5 m | 60.7 m | 59.5 m | 60.7 m | 60.2 m | 59.2 m | 59.2 m | 60.7 m | 60.0 m | 63.7 m | 63.7 m | 65.2 m | 71.8 m |
| Height of effective barrier | 0.5 m | 0.0 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m | 0.5 m |
| Height of barrier (mPD) | 22.6 m | 0.0 m | 24.8 m | 23.6 m | 27.6 m | 27.6 m | 27.1 m | 27.0 m | 26.0 m | 26.0 m | 25.2 m | 25.2 m | 24.7 m | 24.7 m | 23.9 m | 27.8 m |
| a | 2.1 m | 0.0 m | 2.1 m | 7.3 m | 2.1 m | 7.3 m | 2.1 m | 6.6 m | 2.1 m | 6.6 m | 2.1 m | 6.6 m | 2.1 m | 6.6 m | 2.1 m | 4.7 m |
| b | 43.2 m | 0.0 m | 63.7 m | 62.8 m | 63.1 m | 61.9 m | 63.2 m | 62.7 m | 62.0 m | 62.0 m | 63.6 m | 62.9 m | 66.6 m | 66.7 m | 68.3 m | 73.9 m |
| c | 45.3 m | 0.0 m | 65.8 m | 70.0 m | 65.2 m | 69.1 m | 65.3 m | 69.2 m | 64.1 m | 68.5 m | 65.7 m | 69.4 m | 68.8 m | 73.1 m | 70.4 m | 76.3 m |
| Path difference (a+b-c) | 0.031 m | 0.000 m | 0.000 m | 0.134 m | 0.002 m | 0.064 m | 0.002 m | 0.056 m | 0.000 m | 0.073 m | 0.000 m | 0.082 m | 0.000 m | 0.077 m | 0.000 m | 2.330 m |
| Barrier correction (absolute) | 2.3 dB(A) | 0.0 dB(A) | 4.3 dB(A) | 0.0 dB(A) | 4.4 dB(A) | 0.0 dB(A) | 4.3 dB(A) | 0.2 dB(A) | 4.3 dB(A) | 0.0 dB(A) | 4.3 dB(A) | 0.0 dB(A) | 4.3 dB(A) | | | |

| | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B |
| Reference train noise Lmax | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) |
| Speed of reference source | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph |
| Distance of reference source | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m |
| Length of train (L) | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m |
| Lmax (ref) to SEL (ref) | | | | | | | | | | | | |
| D = d/L | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 10 log(L/V) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) |
| -10Log(4D/(4D ² +1)+2tan ⁻¹ (1/2D))+10.5 | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) |
| SEL | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) |
| Input parameters: | | | | | | | | | | | | |
| Horizontal distance (perpendicular distance) | 92.8 m | 104.8 m | 64.3 m | 75.5 m | 40.3 m | 53.8 m | 26.8 m | 37.3 m | 18.5 m | 22.5 m | 18.5 m | 22.5 m |
| Railway Head | 23.3 mPD | 23.2 mPD | 21.6 mPD | 21.9 mPD | 20.9 mPD | 21.2 mPD | 20.3 mPD | 20.4 mPD | 20.0 mPD | 20.1 mPD | 20.1 mPD | 20.1 mPD |
| Effective Source Height | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m |
| Source height | 24.2 mPD | 24.1 mPD | 22.5 mPD | 22.8 mPD | 21.8 mPD | 22.1 mPD | 21.2 mPD | 21.3 mPD | 20.9 mPD | 20.9 mPD | 21.0 mPD | 21.0 mPD |
| Receiver height | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD |
| Height difference between receiver and source | 11.3 m | 11.4 m | 13.0 m | 12.7 m | 13.7 m | 13.4 m | 14.3 m | 14.2 m | 14.6 m | 14.6 m | 14.5 m | 14.5 m |
| Slant distance between receiver and source, (d) | 93.4 m | 105.4 m | 65.5 m | 76.6 m | 42.5 m | 55.4 m | 30.3 m | 39.9 m | 23.5 m | 26.8 m | 23.5 m | 26.8 m |
| Angle of view (θ) | 2.5 degree | 2.5 degree | 5.0 degree | 5.0 degree | 3.0 degree | 3.0 degree | 3.0 degree | 3.0 degree | 6.0 degree | 6.0 degree | 17.0 degree | 17.0 degree |
| Train speed (V) | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph |
| Distance correction | -5.7 dB(A) | -6.2 dB(A) | -4.2 dB(A) | -4.9 dB(A) | -2.3 dB(A) | -3.5 dB(A) | -0.8 dB(A) | -2.0 dB(A) | 0.3 dB(A) | -0.3 dB(A) | 0.3 dB(A) | -0.3 dB(A) |
| Angle-of-view correction | -18.6 dB(A) | -18.6 dB(A) | -15.6 dB(A) | -15.6 dB(A) | -17.8 dB(A) | -17.8 dB(A) | -17.8 dB(A) | -17.8 dB(A) | -14.8 dB(A) | -14.8 dB(A) | -10.2 dB(A) | -10.2 dB(A) |
| Speed correction | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) | -1.2 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) |
| Barrier correction | -5.3 dB(A) | -4.2 dB(A) | -4.5 dB(A) | -17.0 dB(A) | -4.0 dB(A) | -16.6 dB(A) | -0.4 dB(A) | -15.9 dB(A) | 0.0 dB(A) | -14.5 dB(A) | 0.0 dB(A) | -14.5 dB(A) |
| SEL (corrected) | 55.6 dB(A) | 56.1 dB(A) | 60.9 dB(A) | 47.7 dB(A) | 61.0 dB(A) | 47.3 dB(A) | 66.7 dB(A) | 49.4 dB(A) | 71.2 dB(A) | 55.5 dB(A) | 75.1 dB(A) | 60.6 dB(A) |
| SEL to Leq | | | | | | | | | | | | |
| Number of trains on each track in 30 mins (N) | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| T = 1800s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s |
| Correction for Train Frequency | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) |
| Facade correction | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) |
| Leq of each train direction | 38.5 dB(A) | 39.1 dB(A) | 0.0 dB(A) | 30.7 dB(A) | 0.0 dB(A) | 30.2 dB(A) | 0.0 dB(A) | 32.3 dB(A) | 0.0 dB(A) | 38.5 dB(A) | 0.0 dB(A) | 43.6 dB(A) |
| Leq of each segment | 41.8 dB(A) | | 30.7 dB(A) | | 30.2 dB(A) | | 32.4 dB(A) | | 38.5 dB(A) | | 43.6 dB(A) | |
| Total Leq | | | 54.8 dB(A) | | | | | | | | | |
| Lmax Calculation | | | | | | | | | | | | |
| Actual Distance | 245.8 m | 253.3 m | 202.3 m | 215.8 m | 166.3 m | 182.8 m | 133.3 m | 151.3 m | 92.8 m | 112.3 m | 50.8 m | 62.8 m |
| Slant Distance | 246.0 m | 253.5 m | 202.7 m | 216.1 m | 166.8 m | 183.2 m | 134.0 m | 151.9 m | 93.9 m | 113.2 m | 52.8 m | 64.4 m |
| Distance correction | -19.9 dB(A) | -20.1 dB(A) | -18.2 dB(A) | -18.7 dB(A) | -16.5 dB(A) | -17.3 dB(A) | -14.6 dB(A) | -15.5 dB(A) | -11.5 dB(A) | -13.1 dB(A) | -3.2 dB(A) | -4.1 dB(A) |
| Speed correction | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) | -1.7 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) |
| Barrier correction | -5.3 dB(A) | -4.2 dB(A) | -4.5 dB(A) | -17.0 dB(A) | -4.0 dB(A) | -16.6 dB(A) | -0.4 dB(A) | -15.9 dB(A) | 0.0 dB(A) | -14.5 dB(A) | 0.0 dB(A) | -14.5 dB(A) |
| Facade correction | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) |
| Lmax of each train direction | 60.6 dB(A) | 61.4 dB(A) | 0.0 dB(A) | 50.0 dB(A) | 0.0 dB(A) | 51.8 dB(A) | 0.0 dB(A) | 54.1 dB(A) | 0.0 dB(A) | 58.1 dB(A) | 0.0 dB(A) | 68.0 dB(A) |
| Lmax of S/B track | | | 60.6 dB(A) | | | | | | | | | |
| Lmax of N/B track | | | 70.8 dB(A) | | | | | | | | | |
| Lmax, combined (distance corrected) | | | 71.2 dB(A) | | | | | | | | | |
| Horizontal distance from centreline to receiver | 94.5 m | 106.5 m | 66.0 m | 77.3 m | 42.0 m | 55.5 m | 28.5 m | 39.0 m | 20.3 m | 24.3 m | 20.3 m | 24.3 m |
| Parapet height | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m |
| Noise barrier height (above parapet) | 0.0 m | 0.0 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m |
| Overall height (with barrier) | 2.0 m | 2.0 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m |
| Source height | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m |
| Railway head height | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m |
| Railway head to parapet | 2.05 m | 5.80 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m |
| Centreline to railway head | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m |
| Parapet to receiver | 90.7 m | 99.0 m | 62.2 m | 74.4 m | 38.2 m | 52.6 m | 24.7 m | 36.1 m | 16.5 m | 21.4 m | 16.5 m | 21.4 m |
| Height of effective barrier | 0.5 m | 0.5 m | 0.5 m | 4.5 m | 0.5 m | 4.5 m | 0.5 m | 4.5 m | 0.5 m | 4.5 m | 0.5 m | 4.5 m |
| Height of barrier (mPD) | 24.7 m | 24.7 m | 23.1 m | 27.3 m | 22.4 m | 26.5 m | 21.7 m | 25.7 m | 21.5 m | 25.3 m | 21.6 m | 25.4 m |
| a | 2.1 m | 5.8 m | 2.1 m | 4.6 m | 2.1 m | 4.6 m | 2.1 m | 4.6 m | 2.1 m | 4.6 m | 2.1 m | 4.6 m |
| b | 92.3 m | 100.5 m | 64.4 m | 75.8 m | 41.3 m | 54.4 m | 29.2 m | 38.4 m | 22.4 m | 24.6 m | 22.3 m | 24.5 m |
| c | 94.4 m | 106.4 m | 66.5 m | 77.5 m | 43.5 m | 56.4 m | 31.2 m | 40.8 m | 24.3 m | 27.7 m | 24.3 m | 27.6 m |
| Path difference (a+b-c) | 0.020 m | 0.001 m | 0.004 m | 2.869 m | 0.004 m | 2.589 m | 0.054 m | 2.170 m | 0.168 m | 1.493 m | 0.166 m | 1.505 m |
| Barrier correction (absolute) | 5.3 dB(A) | 4.2 dB(A) | 4.5 dB(A) | 17.0 dB(A) | 4.5 dB(A) | 16.6 dB(A) | 0.4 dB(A) | 15.9 dB(A) | 0.0 dB(A) | 14.5 dB(A) | 0.0 dB(A) | 14.5 dB(A) |
| Slope of a = | 0.3 | 0.1 | 0.3 | 4.0 | 0.3 | 4.0 | 0.3 | 4.0 | 0.3 | 4.0 | 0.3 | 4.0 |
| Slope of b = | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.2 | 0.6 | 0.3 | 0.9 | 0.5 | 0.8 | 0.5 |
| Zone of the NSR | Shadow | Illuminated | Shadow | Shadow | Illuminated | Shadow | Illuminated | Shadow | Illuminated | Shadow | Illuminated | Shadow |

| | 7 | | 8 | | 9 | | 10 | | | 11 | | | 12 | |
|--|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|
| | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | N/B | S/B | S/B | N/B | S/B | N/B |
| Reference train noise Lmax | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 0.0 dB(A) |
| Speed of reference source | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 0.0 kph |
| Distance of reference source | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 0.0 m |
| Length of train (L) | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 0.0 m |
| Lmax (ref) to SEL (ref) | | | | | | | | | | | | | | |
| D = d/L | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 |
| 10 log(L/V) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | 0.0 dB(A) |
| -10Log(4D/(4D ² +1)+2tan ⁻¹ (1/2D))+10.5 | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 6.0 dB(A) | 0.0 dB(A) |
| SEL | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 0.0 dB(A) |
| Input parameters: | | | | | | | | | | | | | | |
| Horizontal distance (perpendicular distance) | 18.5 m | 22.5 m | 18.5 m | 22.5 m | 17.8 m | 20.8 m | 10.3 m | 23.3 | 23.3 | 23.3 | 23.3 | 13.3 m | 13.3 m | 0.0 m |
| Railway Head | 20.2 mPD | 20.2 mPD | 20.4 mPD | 20.4 mPD | 20.5 mPD | 20.6 mPD | 20.9 mPD | 20.9 | 20.9 | 20.7 | 20.7 | 21.0 mPD | 21.1 mPD | 0.0 mPD |
| Effective Source Height | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 m | 0.9 m | 0.0 m |
| Source height | 21.1 mPD | 21.1 mPD | 21.3 mPD | 21.3 mPD | 21.4 mPD | 21.5 mPD | 21.8 mPD | 21.8 | 21.8 | 21.6 | 21.6 | 21.9 mPD | 22.0 mPD | 0.0 mPD |
| Receiver height | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 mPD | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 mPD | 35.5 mPD | 0.0 mPD |
| Height difference between receiver and source | 14.4 m | 14.4 m | 14.2 m | 14.2 m | 14.1 m | 14.0 m | 13.7 m | 13.7 | 13.7 | 13.9 | 13.9 | 13.6 m | 13.5 m | 0.0 m |
| Slant distance between receiver and source, (d) | 23.4 m | 26.7 m | 23.3 m | 26.6 m | 22.6 m | 25.0 m | 17.1 m | 27.0 | 27.0 | 27.1 | 27.1 | 19.0 m | 19.0 m | 0.0 m |
| Angle of view (θ) | 43.0 degree | 43.0 degree | 84.0 degree | 84.0 degree | 10.5 degree | 10.5 degree | 1.5 degree | 0.3 | 1.0 | 0.3 | 1.0 | 1.0 degree | 0.5 degree | 0.0 degree |
| Train speed (V) | 70.0 kph | 70.0 kph | 70.0 kph | 75.0 kph | 70.0 kph | 75.0 kph | 75.0 kph | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 kph | 60.0 kph | 70.0 kph |
| Distance correction | 0.3 dB(A) | -0.3 dB(A) | 0.3 dB(A) | -0.3 dB(A) | 0.4 dB(A) | 0.0 dB(A) | 1.6 dB(A) | -0.3 | -0.3 | -0.3 | -0.3 | 1.2 dB(A) | 1.2 dB(A) | 0.0 dB(A) |
| Angle-of-view correction | -6.2 dB(A) | -6.2 dB(A) | -3.3 dB(A) | -3.3 dB(A) | -12.3 dB(A) | -12.3 dB(A) | -20.8 dB(A) | -27.8 | -22.6 | -27.8 | -22.6 | -22.6 dB(A) | -25.6 dB(A) | 0.0 dB(A) |
| Speed correction | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -0.6 dB(A) | -1.2 | -1.2 | -1.2 | -1.2 | -1.2 dB(A) | -2.5 dB(A) | 0.0 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 dB(A) | 3.0 dB(A) | 0.0 dB(A) |
| Barrier correction | 0.0 dB(A) | -14.6 dB(A) | 0.0 dB(A) | -14.6 dB(A) | 0.0 dB(A) | -14.4 dB(A) | 0.0 dB(A) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| SEL (corrected) | 79.2 dB(A) | 64.6 dB(A) | 82.1 dB(A) | 67.5 dB(A) | 73.2 dB(A) | 59.0 dB(A) | 66.6 dB(A) | 57.0 | 62.2 | 57.0 | 62.2 | 63.8 dB(A) | 59.4 dB(A) | 0.0 dB(A) |
| SEL to Leq | | | | | | | | | | | | | | |
| Number of trains on each track in 30 mins (N) | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 0.0 |
| T = 1800s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 s | 1800.0 | 1800.0 | 1800.0 | 1800.0 | 1800.0 s | 1800.0 s | 0.0 s |
| Correction for Train Frequency | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 | -23.5 | -23.5 | -23.5 | -23.5 dB(A) | -23.5 dB(A) | 0.0 dB(A) |
| Facade correction | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 dB(A) | 2.5 dB(A) | 0.0 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 dB(A) | 4.0 dB(A) | 0.0 dB(A) |
| Leq of each train direction | 0.0 dB(A) | 47.6 dB(A) | 0.0 dB(A) | 50.5 dB(A) | 0.0 dB(A) | 42.0 dB(A) | 0.0 dB(A) | 40.0 | 45.2 | 0.0 | 0.0 | 46.7 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| Leq of each segment | 47.6 dB(A) | | 50.5 dB(A) | | 42.0 dB(A) | | 43.3 dB(A) | | 43.3 | | | 46.7 dB(A) | 0.0 dB(A) | |
| Total Leq | | | | | | | | | | | | | | |
| Lmax Calculation | | | | | | | | | | | | | | |
| Actual Distance | 26.0 m | 30.5 m | 28.3 m | 34.3 m | 86.8 m | 103.3 m | 133.3 m | 163.3 | 211.3 | 223.3 | 275.8 | 238.3 m | 253.3 m | 0.0 m |
| Slant Distance | 29.7 m | 33.7 m | 31.6 m | 37.1 m | 87.9 m | 104.2 m | 134.0 m | 163.8 | 211.7 | 223.7 | 276.1 | 238.6 m | 253.6 m | 0.0 m |
| Distance correction | -0.7 dB(A) | -1.3 dB(A) | -1.0 dB(A) | -1.7 dB(A) | -10.9 dB(A) | -12.4 dB(A) | -14.6 dB(A) | -16.3 | -18.6 | -19.0 | -20.9 | -19.6 dB(A) | -20.1 dB(A) | 0.0 dB(A) |
| Speed correction | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -0.8 dB(A) | -1.7 | -1.7 | -1.7 | -1.7 | -1.7 dB(A) | -3.7 dB(A) | 0.0 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 dB(A) | 3.0 dB(A) | 0.0 dB(A) |
| Barrier correction | 0.0 dB(A) | -14.6 dB(A) | 0.0 dB(A) | -14.6 dB(A) | 0.0 dB(A) | -14.4 dB(A) | 0.0 dB(A) | 0.0 | -6.8 | 0.0 | 0.0 | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| Facade correction | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 dB(A) | 2.5 dB(A) | 0.0 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 dB(A) | 4.0 dB(A) | 0.0 dB(A) |
| Lmax of each train direction | 0.0 dB(A) | 70.8 dB(A) | 0.0 dB(A) | 70.3 dB(A) | 0.0 dB(A) | 59.9 dB(A) | 0.0 dB(A) | 69.4 | 60.4 | 0.0 | 0.0 | 66.2 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| Lmax of S/B track | | | | | | | | | | | | | | |
| Lmax of N/B track | | | | | | | | | | | | | | |
| Lmax, combined (distance corrected) | | | | | | | | | | | | | | |
| Horizontal distance from centreline to receiver | 20.3 m | 24.3 m | 20.3 m | 24.3 m | 19.5 m | 22.5 m | 12.0 m | 25.0 | 25.0 | 25.0 | 25.0 | 15.0 m | 15.0 m | 0.0 m |
| Parapet height | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 m | 2.0 m | 0.0 m |
| Noise barrier height (above parapet) | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 m | 0.0 m | 0.0 m |
| Overall height (with barrier) | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 m | 2.0 m | 0.0 m |
| Source height | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 m | 0.9 m | 0.0 m |
| Railway head height | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 m | 0.56 m | 0.00 m |
| Railway head to parapet | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 m | 2.05 m | 0.00 m |
| Centreline to railway head | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 m | 0.8 m | 0.0 m |
| Parapet to receiver | 16.5 m | 21.4 m | 16.5 m | 21.4 m | 15.7 m | 19.6 m | 8.2 m | 21.2 | 21.2 | 21.2 | 21.2 | 11.2 m | 11.2 m | 0.0 m |
| Height of effective barrier | 0.5 m | 4.5 m | 0.5 m | 4.5 m | 0.5 m | 4.5 m | 0.5 m | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 m | 0.5 m | 0.0 m |
| Height of barrier (mPD) | 21.7 m | 25.6 m | 21.8 m | 25.7 m | 22.0 m | 26.0 m | 22.3 m | 22.3 | 22.3 | 22.2 | 22.2 | 22.5 m | 22.5 m | 0.0 m |
| a | 2.1 m | 4.6 m | 2.1 m | 4.6 m | 2.1 m | 4.6 m | 2.1 m | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 m | 2.1 m | 0.0 m |
| b | 22.3 m | 24.5 m | 22.2 m | 24.4 m | 21.5 m | 22.7 m | 16.1 m | 25.8 | 25.8 | 25.9 | 25.9 | 17.9 m | 17.8 m | 0.0 m |
| c | 24.2 m | 27.5 m | 24.1 m | 27.5 m | 23.4 m | 25.9 m | 17.7 m | 27.9 | 27.9 | 27.9 | 27.9 | 19.7 m | 19.7 m | 0.0 m |
| Path difference (a+b-c) | 0.163 m | 1.522 m | 0.159 m | 1.536 m | 0.170 m | 1.453 m | 0.449 m | 0.076 | 0.076 | 0.078 | 0.078 | 0.293 m | 0.291 m | 0.000 m |
| Barrier correction (absolute) | 0.0 dB(A) | 14.6 dB(A) | 0.0 dB(A) | 14.4 dB(A) | 0.0 dB(A) | 14.4 dB(A) | 0.0 dB(A) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| Slope of a = | 0.3 | 4.0 | 0.3 | 4.0 | 0.3 | 4.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 |
| Slope of b = | 0.8 | 0.5 | 0.8 | 0.5 | 0.9 | 0.5 | 1.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.2 | 0.0 |
| Zone of the NSR | Illuminated | Shadow | Illuminated | Shadow | Illuminated | Shadow | Illuminated | Illuminated | Illuminated | Illuminated | Illuminated | Illuminated | Illuminated | N/A |

| | 1a | | 1b | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | |
| Reference train noise L _{max} | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | 78.0 dB(A) | |
| Speed of reference source | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | 80.0 kph | |
| Distance of reference source | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | 25.0 m | |
| Length of train (L) | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | 68.0 m | |
| L_{max} (ref) to SEL (ref) | | | | | | | | | | | | | | | | | | | |
| D = d/L | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | |
| 10 log(LV) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | -0.7 dB(A) | |
| SEL | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | 83.3 dB(A) | |
| Input parameters: | | | | | | | | | | | | | | | | | | | |
| Horizontal distance (perpendicular distance) | 34.3 m | 38.8 m | 34.3 m | 38.8 m | 34.3 m | 38.8 m | 35.8 m | 39.5 m | 35.1 m | 38.1 m | 32.8 m | 32.1 m | 32.8 m | 28.3 m | 32.8 m | 31.3 m | 29.8 m | 0.0 m | |
| Railway Head | 20.2 mPD | 20.2 mPD | 20.4 mPD | 20.4 mPD | 20.4 mPD | 20.6 mPD | 20.7 mPD | 20.6 mPD | 20.8 mPD | 20.8 mPD | 20.8 mPD | 20.6 mPD | 20.9 mPD | 20.6 mPD | 20.9 mPD | 21.1 mPD | 21.1 mPD | 20.6 mPD | 0.0 mPD |
| Effective Source Height | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.0 m |
| Source height | 21.1 mPD | 21.1 mPD | 21.3 mPD | 21.3 mPD | 21.5 mPD | 21.6 mPD | 21.6 mPD | 21.6 mPD | 21.7 mPD | 21.7 mPD | 21.7 mPD | 21.5 mPD | 21.8 mPD | 21.5 mPD | 21.8 mPD | 22.0 mPD | 22.0 mPD | 22.0 mPD | 0.0 mPD |
| Receiver height | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 26.4 mPD | 0.0 mPD |
| Height difference between receiver and source | 5.3 m | 5.3 m | 5.1 m | 5.1 m | 5.1 m | 4.9 m | 4.9 m | 4.8 m | 4.7 m | 4.7 m | 4.7 m | 4.9 m | 4.6 m | 4.9 m | 4.4 m | 4.4 m | 4.4 m | 4.4 m | 0.0 m |
| Slant distance between receiver and source, (d) | 34.7 m | 39.1 m | 34.6 m | 39.1 m | 34.6 m | 39.1 m | 36.1 m | 39.8 m | 35.4 m | 38.3 m | 33.1 m | 32.4 m | 33.1 m | 28.7 m | 33.1 m | 31.6 m | 30.1 m | 30.1 m | 0.0 m |
| Angle of view (θ) | 5.0 degree | 5.0 degree | 14.0 degree | 14.0 degree | 41.0 degree | 41.0 degree | 36.0 degree | 36.0 degree | 30.0 degree | 30.0 degree | 9.0 degree | 9.0 degree | 3.0 degree | 3.0 degree | 4.5 degree | 4.5 degree | 4.5 degree | 4.5 degree | 0.0 degree |
| Train speed (V) | 70.0 kph | 75.0 kph | 70.0 kph | 75.0 kph | 70.0 kph | 75.0 kph | 70.0 kph | 75.0 kph | 70.0 kph | 75.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 70.0 kph | 60.0 kph | 60.0 kph | 0.0 kph |
| Distance correction | -1.4 dB(A) | -1.4 dB(A) | -1.4 dB(A) | -1.4 dB(A) | -1.4 dB(A) | -1.4 dB(A) | -1.6 dB(A) | -1.9 dB(A) | -1.5 dB(A) | -1.9 dB(A) | -1.2 dB(A) | -1.1 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -1.0 dB(A) | -0.8 dB(A) | -0.8 dB(A) | 0.0 dB(A) |
| Angle-of-view correction | -15.6 dB(A) | -15.6 dB(A) | -11.1 dB(A) | -11.1 dB(A) | -6.4 dB(A) | -6.4 dB(A) | -7.0 dB(A) | -7.0 dB(A) | -7.8 dB(A) | -7.8 dB(A) | -13.0 dB(A) | -13.0 dB(A) | -17.8 dB(A) | -17.8 dB(A) | -16.0 dB(A) | -16.0 dB(A) | -16.0 dB(A) | -16.0 dB(A) | 0.0 dB(A) |
| Speed correction | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | -1.2 dB(A) | -0.6 dB(A) | 0.0 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 0.0 dB(A) |
| Barrier correction | -4.9 dB(A) | -17.3 dB(A) | -5.0 dB(A) | -17.4 dB(A) | -5.0 dB(A) | -17.4 dB(A) | -5.1 dB(A) | -17.4 dB(A) | -5.1 dB(A) | -17.4 dB(A) | -5.1 dB(A) | -4.9 dB(A) | -5.1 dB(A) | -4.8 dB(A) | -5.1 dB(A) | -5.1 dB(A) | -5.1 dB(A) | -5.1 dB(A) | 0.0 dB(A) |
| SEL (corrected) | 63.2 dB(A) | 50.9 dB(A) | 67.6 dB(A) | 55.3 dB(A) | 72.2 dB(A) | 60.0 dB(A) | 71.4 dB(A) | 59.3 dB(A) | 70.7 dB(A) | 58.7 dB(A) | 65.8 dB(A) | 66.0 dB(A) | 61.0 dB(A) | 62.0 dB(A) | 62.8 dB(A) | 63.0 dB(A) | 62.0 dB(A) | 62.0 dB(A) | 0.0 dB(A) |
| SEL to Leq | | | | | | | | | | | | | | | | | | | |
| Number of trains on each track in 30 mins (N) | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 0.0 |
| T = 1800s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 1,800.0 s | 0.0 s |
| Correction for Train Frequency | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | -23.5 dB(A) | 0.0 dB(A) |
| Facade correction | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 0.0 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 0.0 dB(A) |
| Leq of each train direction | 0.0 dB(A) | 33.9 | 0.0 dB(A) | 38.3 | 0.0 dB(A) | 42.9 | 0.0 dB(A) | 42.3 | 0.0 dB(A) | 41.6 | 0.0 dB(A) | 49.0 | 0.0 dB(A) | 45.0 | 0.0 dB(A) | 46.0 | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| Leq of each segment | 33.9 dB(A) | | 38.3 dB(A) | | 42.9 dB(A) | | 42.3 dB(A) | | 41.7 dB(A) | | 49.0 dB(A) | | 45.0 dB(A) | | 46.0 dB(A) | | 0.0 dB(A) | | 0.0 dB(A) |
| Total Leq | | | 53.2 dB(A) | | | | | | | | | | | | | | | | |
| L_{max} Calculation | | | | | | | | | | | | | | | | | | | |
| Actual Distance | 154.3 m | 169.3 m | 94.3 m | 103.3 m | 48.5 m | 53.8 m | 35.8 m | 38.8 m | 46.3 m | 52.3 m | 68.8 m | 82.3 m | 83.8 m | 106.3 m | 100.3 m | 139.3 m | 132.5 m | 0.0 m | |
| Slant Distance | 154.3 m | 169.3 m | 94.4 m | 103.4 m | 48.7 m | 54.0 m | 36.1 m | 39.1 m | 46.5 m | 52.5 m | 68.9 m | 82.4 m | 83.9 m | 106.4 m | 100.4 m | 139.3 m | 132.6 m | 0.0 m | |
| Distance correction | -15.8 dB(A) | -16.6 dB(A) | -11.5 dB(A) | -12.3 dB(A) | -2.9 dB(A) | -3.3 dB(A) | -1.6 dB(A) | -1.9 dB(A) | -2.7 dB(A) | -3.2 dB(A) | -8.8 dB(A) | -10.4 dB(A) | -10.5 dB(A) | -12.6 dB(A) | -12.1 dB(A) | -14.9 dB(A) | -14.5 dB(A) | -14.5 dB(A) | 0.0 dB(A) |
| Speed correction | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | -1.7 dB(A) | -0.8 dB(A) | 0.0 dB(A) |
| Points and crossing | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| poor track | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 0.0 dB(A) |
| Barrier correction | -4.9 dB(A) | -17.3 dB(A) | -5.0 dB(A) | -17.4 dB(A) | -5.0 dB(A) | -17.4 dB(A) | -5.1 dB(A) | -17.4 dB(A) | -5.1 dB(A) | -17.4 dB(A) | -5.1 dB(A) | -4.9 dB(A) | -5.1 dB(A) | -4.8 dB(A) | -5.1 dB(A) | -5.1 dB(A) | -5.1 dB(A) | -5.1 dB(A) | 0.0 dB(A) |
| Facade correction | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 2.5 dB(A) | 0.0 dB(A) |
| Re-radiated Noise | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 4.0 dB(A) | 0.0 dB(A) |
| L_{max} of each train direction | 0.0 dB(A) | 52.7 dB(A) | 0.0 dB(A) | 57.0 dB(A) | 0.0 dB(A) | 65.9 dB(A) | 0.0 dB(A) | 67.3 dB(A) | 0.0 dB(A) | 66.0 dB(A) | 0.0 dB(A) | 70.5 dB(A) | 0.0 dB(A) | 68.4 dB(A) | 0.0 dB(A) | 65.8 dB(A) | 0.0 dB(A) | 0.0 dB(A) | 0.0 dB(A) |
| L_{max} of S/B track | | | 0.0 dB(A) | | | | | | | | | | | | | | | | |
| L_{max} of N/B track | | | 70.5 dB(A) | | | | | | | | | | | | | | | | |
| L_{max}, combined (distance corrected) | | | | | | | | | | | | | | | | | | | |
| Horizontal distance from centreline to receiver | 36.0 m | 40.5 m | 36.0 m | 40.5 m | 36.0 m | 40.5 m | 37.5 m | 41.3 m | 36.8 m | 39.8 m | 34.5 m | 33.8 m | 34.5 m | 30.0 m | 34.5 m | 33.0 m | 31.5 m | 31.5 m | 0.0 m |
| Parapet height | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 2.0 m | 0.0 m |
| Noise barrier height (above parapet) | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 3.9 m | 0.0 m | 0.0 m | 0.0 m |
| Overall height (with barrier) | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 5.9 m | 2.0 m | 2.0 m | 0.0 m |
| Source height | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.9 m | 0.0 m |
| Railway head height | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.56 m | 0.0 m |
| Railway head to parapet | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 1.13 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 2.05 m | 0.0 m |
| Centreline to railway head | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.8 m | 0.0 m |
| Parapet to receiver | 32.2 m | 37.6 m | 32.2 m | 37.6 m | 32.2 m | 37.6 m | 33.7 m | 38.4 m | 33.0 m | 36.9 m | 30.7 m | 30.0 m | 30.7 m | 26.2 m | 30.7 m | 29.2 m | 27.7 m | 27.7 | |

