



Road and Tyre Noise

The following are snippets of interesting research information from Europe:

- Light vehicle generated noise levels on DGA increase at a rate 0.1 dB(A) per year with the ageing of the pavement, irrespective whether it is in a high speed or low speed area;
- On OGA the increase is 0.4 dB(A) per year on high speed roads and 0.9 dB(A) on low speed roads. (It should be noted that this applies also to weaving, merging, stopping and starting areas on high speed roads. Furthermore, in Europe OGA is flushed out on an average of two times a year).
- There can be a noise level variation of 2.5 to 5.5 dB(A) depending on the tyre tread pattern of light vehicle tyres.
- In the EU a push has started to limit the tread generated tyre noise as well as having this noise rating stamped into the tyre.
- Noise readings are also temperature affected. The warmer the pavement, the higher the noise reading.
- Similarly, a rise in ambient temperature from 20°C to 50°C will increase the noise level by 2.5 dB(A).
- If the tyre noise at 50 km/h is 67.5 dB(A), then at 110 km/h it can increase to 80 dB(A).