ENVIRONMENTAL ATLAS Berlin

Strategic Noise Maps
Streetcar and Above-Ground Subway Traffic Noise Index L_DEN

L_DEN in dB(A)

- <= 55
- > 55 - 60
- > 60 - 65
- > 65 - 70
- > 70 - 75
- > 75
- Streetcar and Above-Ground Subway
- Dwelling Borders ALK
- Stretch of Water

1. The "Directive of the European Parliament and of the Council relating to the assessment and management of environmental noise" came into force on 18th February 2002.
This requires the following actions:
- determining the load caused by environmental noise by means of noise maps and according to assessment methods to be used by all of the Member States;
- adoption of action plans through the Member States based on the results of noise maps and aiming at preventing and reducing environmental noise where necessary and particulary in cases where exposure levels might have effects that are detrimental to health.

2. The following noise sources were examined:
- Road traffic (motor vehicles including busses)
- Streetcar traffic and above-ground subway traffic
- Industrial and commercial areas with plants complying with Annex I of Directive 96/61/EC
- Air traffic
- Railway traffic according to the Allgemeines Eisenbahngesetz (AEG, General Railroad Law).
Included in the examination were further relevant main noise sources in the Brandenburg area adjoining the borders, which exceed the specified immission levels.

3. As required in the "Directive on the Assessment and Management of Environmental Noise", strategic noise maps graphically represent the noise situation according to the specified isophone classes.
It has to be point out, that the responsible Senate Department has to take into account suitable measurements, if the following noise indices will be exceeded:
- L_DEN = 70 db(A) and
- L_N = 60 db(A).

4. The noise exposure is specified through the following variables:
- Tabular data about the estimated number of persons living in areas located within the specified isophone bands. Figures should be rounded up or down to the next hundredth place.
- Tabular data about noise-exposed areas as well as the estimated number of dwellings, schools and hospitals in these areas for the following LDEN values: L_DEN > 55 dB(A), L_DEN > 65 dB(A), L_DEN > 75 dB(A).

5. Basis of all acoustic calculations are the noise values at the reception points which are positioned at residential buildings, hospitals and schools.
Map 07.05.11 (Facade Levels at Residential Buildings Within the Exposure Range of Main Noise Sources) provides a complete overview of the reception points used on the facades, including the immission levels calculated.

Scale: 1 : 50 000

0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 km

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