

Modeļa pamatdati

| Project Properties | | | | |
|----------------------|----------------------------|--|--|--|
| Topic: | Noise | | | |
| Type of prediction: | Noise (acc. to 2002/49/EC) | | | |
| Rating following:: | Lden | | | |
| Project notes | | | | |

| Work area | | | | |
|-------------------------------|--|------------------|------------|------------|
| Coordinate system: | Latvian Transversal Mercator coordinates | | | |
| Coordinate datum: | LKS92 (LV), geozentrical, GRS80 | | | |
| | from ... | to ... | Dimensions | Area |
| x /m | 651990.00 | 666010.00 | 14020.00 | 224.60 km² |
| y /m | 243990.00 | 260010.00 | 16020.00 | |
| z /m | -10.00 | 20.00 | 30.00 | |
| Terrain height in the corners | | | | |
| xmin / ymax (z4) | 102.00 | xmax / ymax (z3) | 112.00 | |
| xmin / ymin (z1) | 100.00 | xmax / ymin (z2) | 124.00 | |

| Attribution of element groups to variants | | | | | |
|---|-----------|-----|--|--|--|
| Element group | Variant 0 | VES | | | |
| Group 0 | + | + | | | |
| 3 m/s | + | + | | | |
| 4 m/s | + | + | | | |
| 5 m/s | + | + | | | |
| 6 m/s | + | + | | | |
| >=7 m/s | + | + | | | |

| Available calculation areas | | | | | | | | | | | | |
|-----------------------------|-----------|-----------|-----------|-----------|-------|-------|------|------|-----------|----------|---------------|--|
| Name | x min /m | x max /m | y min /m | y max /m | dx /m | dy /m | nx | ny | Reference | Height/m | Range | |
| Grid 0 | 652000.00 | 666000.00 | 244000.00 | 260000.00 | 10.00 | 10.00 | 1401 | 1601 | relative | 4.00 | Land-use only | |

| Calculation parameters | | Copy of reference | | |
|---|----------------------|----------------------|------------------|--|
| Calculation model: General | | Point calculation | Grid calculation | |
| Adapt assessment area seamlessly to the receiver position | | | | |
| L /m | | | | |
| Terrain triangulation edges are obstacle | Yes | Yes | | |
| consider negative loop way at terraine triangular lines | No | No | | |
| Improved interpolation in boundary areas | Yes | Yes | | |
| Free field in front of refl. surfaces/m | | | | |
| acc. to sources | 1.0 | 1.0 | | |
| acc. to immission points | 1.0 | 1.0 | | |
| House: white border in grid | No | No | | |
| Intermediate messages: | No | No | | |
| Calculation model: Parameters | "reference settings" | "reference settings" | | |
| Limiting range of sound sources: | | | | |
| * Limit the search radius (distance source-IP): | No | No | | |
| * minimum level difference /dB: | No | No | | |
| Projection of line sound sources | Yes | Yes | | |
| Projection of area sound sources | Yes | Yes | | |
| Limit projection | No | No | | |
| * Radius /m around source: | | | | |
| * Radius /m around IP: | | | | |
| Minimum length for sections /m | 1.0 | 1.0 | | |
| Variable min. length for sections: | | | | |
| * in percent of the distance from the IP source | No | No | | |
| Add. factor for distance criterion | 1.0 | 1.0 | | |
| Barrier attenuation differing from guideline: | No | No | | |
| * Cut-off limit for insertion loss: | | | | |
| * Limit /dB for single screens: | | | | |

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|---|-----|-----|--|--|
| * Limit /dB for multiple screens: | | | | |
| Calculate attenuation for VDI 2720, ISO9613 | | | | |
| * Lateral pathway | Yes | Yes | | |
| * Lateral pathway for image sources | No | No | | |
| | | | | |
| Reflection | | | | |
| Reflection (max. order) | 1 | 1 | | |
| Limit the search radius (distance source-IP): | No | No | | |
| * Search radius /m | | | | |
| Limiting range of reflecting surfaces /m: | | | | |
| * Radius around source or IP /m: | No | No | | |
| * minimum level difference /dB: | No | No | | |
| Image source from projection | Yes | Yes | | |
| No refl. if entirely screened | Yes | Yes | | |
| Save rays as help lines | No | No | | |
| | | | | |
| | | | | |
| section control | | | | |
| Section control acc. Schall 03 [2012]: | Yes | Yes | | |
| Section control for other calculation methods, too: | No | No | | |
| Accelerated iteration (approximation): | No | No | | |
| Requested accuracy /dB: | 0.1 | 0.1 | | |
| Show intermediate results: | No | No | | |

| Global parameters | Copy of reference | | | | | |
|--|-------------------|---------|-------|--|--|--|
| Default for G outside DBOD-elements | 1.00 | | | | | |
| Temperature /°C | 5 | | | | | |
| Relative humidity /% | 80 | | | | | |
| Living area per inhab-/m² (=0.8*gross) | 40.00 | | | | | |
| Average storey height /m | 2.80 | | | | | |
| Simplified meteorology (Guideline Int. Comp. Methods): | Day | Evening | Night | | | |
| Simplified meteorology (Guideline Int. Comp. Methods): | 2.00 | 1.00 | 0.00 | | | |

| Parameters of library: CNOSSOS-EU | Copy of reference | | | | | |
|---|-------------------|--|--|--|--|--|
| Selection of meteo parameters | | | | | | |
| Day (12h) | 100 % favourable | | | | | |
| Night (8h) | 100 % favourable | | | | | |
| Evening (4h) | 100 % favourable | | | | | |
| lateral pathway at point sources | Yes | | | | | |
| improved algorithm for double diffraction | Yes | | | | | |
| Accounts for vegetation | No | | | | | |
| Accounts for housing | No | | | | | |
| Accounts for ground effect | Yes | | | | | |

| Emission spectra (Internal database) | | | | | | | | | | | | | |
|--------------------------------------|------------|------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
| Name | Σ dB(A) | Type | | 16 Hz | 32 Hz | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| Nordex163-7.0 3 m/s | 97.8 | A | dB(A) | 50.0 54.6 58.9 | 62.3 64.6 66.6 | 68.6 71.6 74.6 | 77.6 82.6 82.6 | 83.6 84.0 84.3 | 84.7 85.2 85.7 | 86.2 87.3 87.8 | 88.8 87.8 86.7 | 83.1 80.6 77.6 | 70.6 62.6 57.2 |
| Nordex163-7.0 4 m/s | 100.3 | A | dB(A) | 52.5 57.1 61.4 | 64.8 67.1 69.1 | 71.1 74.1 77.1 | 80.1 85.1 85.1 | 86.1 86.5 86.8 | 87.2 87.7 88.2 | 88.7 89.8 90.3 | 91.3 90.3 89.2 | 85.6 83.1 80.1 | 73.1 65.1 59.7 |
| Nordex163-7.0 5 m/s | 105.2 | A | dB(A) | 57.4 62.0 66.3 | 69.7 72.0 74.0 | 76.0 79.0 82.0 | 85.0 90.0 90.0 | 91.0 91.4 91.7 | 92.1 92.6 93.1 | 93.6 94.7 95.2 | 96.2 95.2 94.1 | 90.5 88.0 85.0 | 78.0 70.0 64.6 |
| Nordex163-7.0 6 m/s | 109.2 | A | dB(A) | 61.4 66.0 70.3 | 73.7 76.0 78.0 | 80.0 83.0 86.0 | 89.0 94.0 94.0 | 95.0 95.4 95.7 | 96.1 96.6 97.1 | 97.6 98.7 99.2 | 100.2 99.2 98.1 | 94.5 92.0 89.0 | 82.0 74.0 68.6 |
| Nordex163-7.0 >=7 m/s | 109.4 | A | dB(A) | 61.6 66.2 70.5 | 73.9 76.2 78.2 | 80.2 83.2 86.2 | 89.2 94.2 94.2 | 95.2 95.6 95.9 | 96.3 96.8 97.3 | 97.8 98.9 99.4 | 100.4 99.4 98.3 | 94.7 92.2 89.2 | 82.2 74.2 68.8 |