

| 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), geozentral, GRS80 | | | |
| | from ... | to ... | Dimensions | Area |
| x /m | 533762.04 | 546010.00 | 12247.96 | 196.11 km² |
| y /m | 265990.00 | 282002.00 | 16012.00 | |
| z /m | -10.00 | 180.00 | 190.00 | |
| Terrain height in the corners | | | | |
| xmin / ymax (z4) | 44.00 | xmax / ymax (z3) | 45.00 | |
| xmin / ymin (z1) | 38.00 | xmax / ymin (z2) | 56.00 | |

| Attribution of element groups to variants | | | | | |
|---|-----------|--|--|--|--|
| Element group | Variant 0 | | | | |
| 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 | 533770.00 | 546010.00 | 265990.00 | 282000.00 | 10.00 | 10.00 | 1225 | 1602 | relative | 4.00 | Rectangle | |

| Calculation parameters | Copy from "Reference Setting" | |
|---|-------------------------------|----------------------|
| 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 | Yes | Yes |
| 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: | | |

| | | | | |
|---|-----|-----|--|--|
| * 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 from "Reference Setting" | | | |
|--|-------------------------------|---------|-------|--|
| Default for G outside DBOD-elements | 1.00 | | | |
| Temperature /°C | 10 | | | |
| Relative humidity /% | 70 | | | |
| 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 from "Reference Setting" | | | |
|--|-------------------------------|--|--|--|
| 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 diffractio | Yes | | | |
| Accounts for vegetation | No | | | |
| Accounts for housing | No | | | |
| Accounts for ground effect | Yes | | | |