

SoundPLAN essential

Punktquelle (119)

Name
Garbage compactor

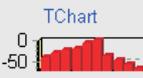
assigned to building

Calculation mode

Mean level 500 Hz

Ref. spectrum

TChart



Emission

	Day	Evening	Night
dB[A]	75.0	58.0	48.0

Correction Factors

k-Wall	k-I	k-T
-	10.0	-

Example: Definition of a line source

Calculation procedures and noise types

SoundPLAN-essential calculates noise received from roads, railways, industry and parking lots. Calculations can be presented for individual noise types or for any combination of noise types. For each noise type or combination, you can generate variants with and without noise control.

Roads and railways are calculated in accordance to the appropriate calculation standard such as the NMPB or Schall03. For the entry and the noise assessment, select between two time slots for day/night, or three time slots for day/evening/night.

Parking lots are calculated with RLS-90 or the parking lot study from 2007. Industry

and other frequency dependant noise is calculated in accordance to ISO 9613-2. For the assessment, select between the models for weekday and for weekend, and a model with two or three time slots. It is also possible to evaluate the maximum noise levels.

The emission from the sources is defined for an averaged mean frequency or a third octave/octave spectrum. Quiet times can be defined with their noise penalties.

All noise types generate calculations, documentation and graphics for single receivers, noise limit contour lines, and color filled contour areas of Grid Noise Maps.

Tools to create the noise model

The easiest way to create model data is to import a geo-referenced bitmap and digitize the data on top of it. If you already have the model data, import it via DXF, ASCII or ESRI shapefiles interfaces.

The following elements are available:

Noise sources (by noise type): roads, traffic signal, railways, parking lots, point, line and area sources and ground absorption areas

Elevation lines and spot heights to generate the digital ground model

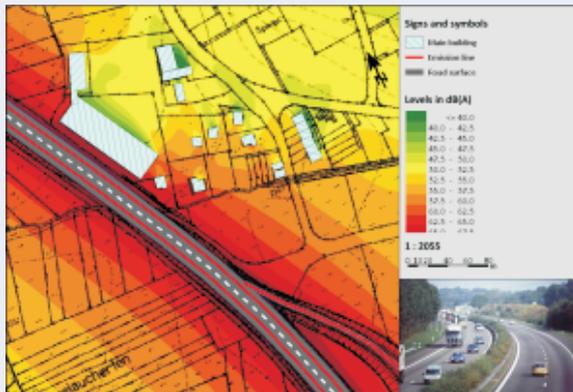
Buildings, noise protection walls, berms (unlimited numbers)

Receivers attached to buildings and free standing receivers

General lines and text elements

Road noise (NMPB) - with DGM Results of the Single Receiver Calculation													
No.	Receiver name	Building side	Floor	Night	Lden	Night	Lden	Night	Lden	Night	Lden	Night	Lden
1	Green road 01	South	EG	50	60	62.7	71.6	46.3	55.6	-16.4	-16.0	-	-
			1.OG	50	60	63.4	72.7	50.4	59.1	-13.0	-13.6	0.4	-
2	Green road 01	West	EG	50	60	63.2	72.3	51.0	60.0	-12.2	-12.3	1.0	-
			1.OG	50	60	63.8	73.2	53.8	62.8	-10.0	-10.4	3.8	2.8
3	Green road 02	South	EG	50	60	54.9	63.1	48.4	53.6	-8.5	-9.2	-	-
			1.OG	50	60	56.1	64.6	47.7	56.0	-6.4	-6.8	-	-
4	Green road 02	West	EG	50	60	52.9	61.3	39.6	46.1	-13.3	-12.2	-	-
			1.OG	50	60	54.4	63.3	43.7	52.6	-10.7	-10.7	-	-
5	Green road 03	South	EG	50	60	59.8	68.4	46.3	55.1	-13.5	-13.3	-	-
			1.OG	50	60	61.0	70.1	49.2	57.7	-11.8	-12.4	-	-
6	Green road 03	West	EG	50	60	50.0	67.7	43.4	52.8	-15.6	-14.9	-	-
			1.OG	50	60	50.3	69.6	48.6	57.3	-11.7	-12.3	-	-
7	Red road 01	West	EG	50	60	55.5	63.7	42.0	51.1	-13.5	-12.8	-	-
			1.OG	50	60	57.7	66.0	51.4	59.6	-6.3	-6.4	1.4	-
8	Red road 01	South	EG	50	60	55.4	63.5	46.4	54.8	-9.0	-8.7	-	-
			1.OG	50	60	58.1	66.4	51.4	59.7	-6.7	-6.7	1.4	-
9	Red road 02	South	EG	50	60	53.5	61.5	46.6	54.8	-8.9	-8.7	-	-
			1.OG	50	60	54.0	62.1	46.7	54.9	-7.3	-7.2	-	-
10	Red road 02	West	EG	50	60	54.0	62.1	46.7	54.9	-7.3	-7.2	-	-
			1.OG	50	60	54.9	63.1	48.6	56.8	-6.3	-6.3	-	-

The documentation of results presents the details of the noise simulation for each receiver



Documentation in tabular and graphical form

- Table with details of source properties
- Table with source contributions at the receiver
- Table of noise levels at the receiver with frequency details
- Tabular results of calculations and assessments at the receiver
- Graphic presentation of the geometry and results in small tables
- Noise limit contour line in combination with single receiver results
- Grid Noise Maps with color fills of the area between contour lines

Sheet settings of the project

Sheet Logo Map / North arrow Map text Color scale

Properties

Size: DIN A3 (420 x 297 mm)

Background color of description box: []

Division: []

Save as default settings

OK Cancel Help

