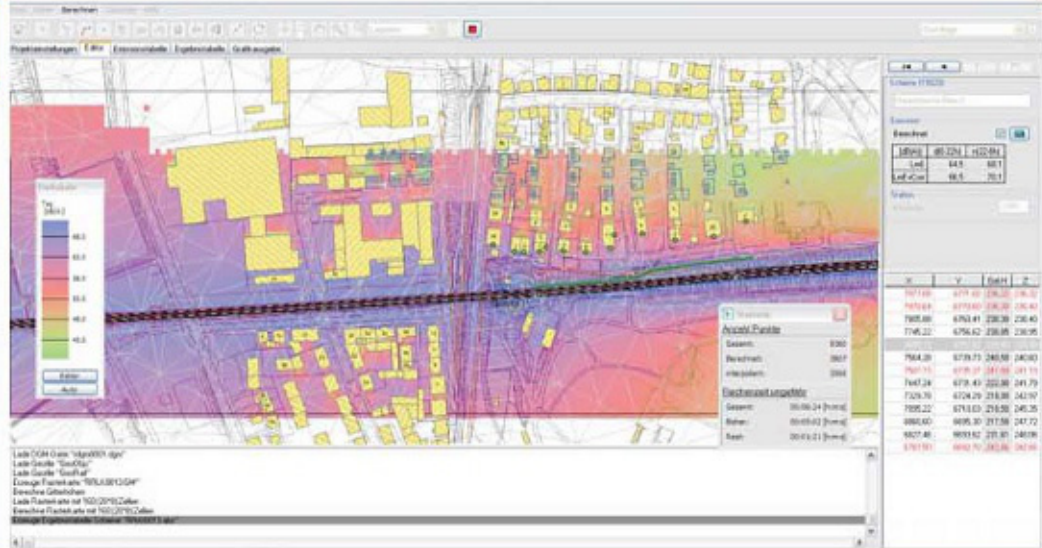


SoundPLAN[®] essential

Braunstein + Berndt GmbH

SP essential...



... the low cost alternative for standard cases

Highlights:

- Unlimited model size (your computer's memory is the only limit)
- Standards calculations conform to the proven, original SoundPLAN calculation core
- Intuitive, flexible graphic data entry
- Calculates single receivers, noise limit contours and color filled contour areas
- Preformatted high quality graphics and table presentations for all time slots
- Documents partial noise levels for all sources for all receivers with spectral details
- Results for each noise type or combination of road, rail and industry
- Window protection classes in accordance to DIN 4109

BRAUNSTEIN+BERNDT GMBH

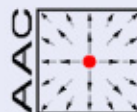
INGENIEURBÜRO FÜR
SOFTWAREENTWICKLUNG
LÄRMSCHUTZ
UMWELTPLANUNG



Etzwiesenberg 15
D-71522 Backnang

**Sound
PLAN**
Tel. +49.7191.9144-0
Fax +49.7191.9144-24
www.soundplan.de

Certified in accordance to ISO 9001:2008



AAC ACÚSTICA + LUMÍNICA

Distribuidor oficial del modelo SoundPLAN en España y Portugal

Parque Tecnológico de Álava
Leonardo Da Vinci, 14 - 7B

E-01510 Miñano (VITORIA-GASTEIZ)

Tel. (+34) 945 29 82 33 - Fax. (+34) 945 29 82 61

Correo e.: aac@aacacustica.com

Web: www.aacacustica.com

Razón Social: AAC Centro de Acústica Aplicada SL

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-l	k-T
-	10.0	-

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 immission areas

General lines and text elements

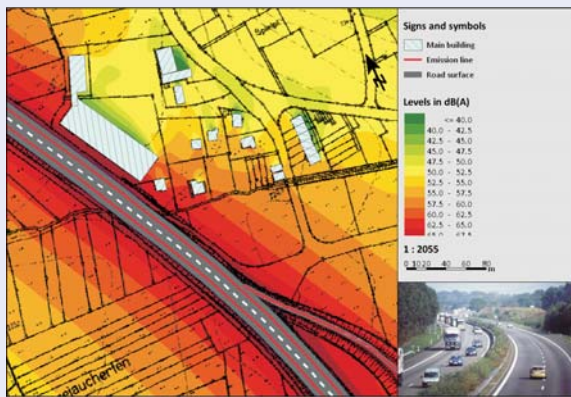
Road noise (NMPB) - with DGM
Results of the Single Receiver Calculation

No.	Receiver name	Building side	Floor	Night Lden	Night Lden	Night Lden	Night Lden	Night Lden	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	63.8	62.8	-10.0	-10.4	3.8	2.8
3	Green road 02	South	EG	50	60	54.9	63.1	45.4	53.9	-9.5	-9.2	-	-
			1.OG	50	60	56.1	64.6	47.7	56.0	-6.4	-6.6	-	-
4	Green road 02	West	EG	50	60	52.9	61.3	39.6	49.1	-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	-11.6	-12.4	-	-
6	Green road 03	West	EG	50	60	59.0	67.7	43.4	52.8	-16.6	-14.9	-	-
			1.OG	50	60	60.3	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	-12.6	-	-
			1.OG	50	60	57.7	66.0	51.4	59.6	-8.3	-8.4	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	56.1	64.4	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	-6.9	-6.7	-	-
			1.OG	50	60	54.3	62.5	48.2	56.5	-6.1	-6.0	-	-
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	-	-

Braunstein + Berndt GmbH Eitzwiesenberg 15 71622 Backnang

Seite 1

Übersichtliche Dokumentation der Ergebnisse einer Berechnung einzelner Immissionsorte



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: [Color selection]

Division: 10.0

Scale: 1:2055

Buttons: Save as default settings, OK, Cancel, Help

