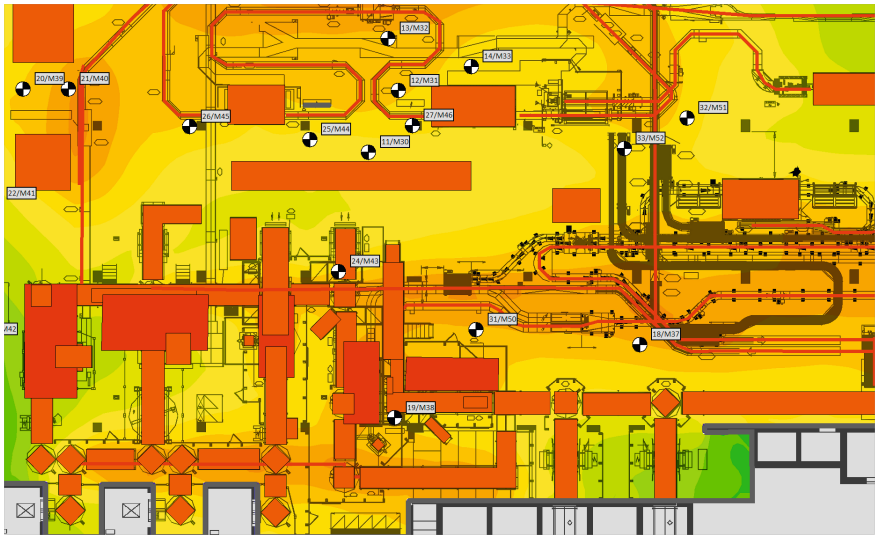
SoundPLAN®
noise





Indoor Sound Propagation

Advanced calculation
of interior levels in working places considering any room type and installation

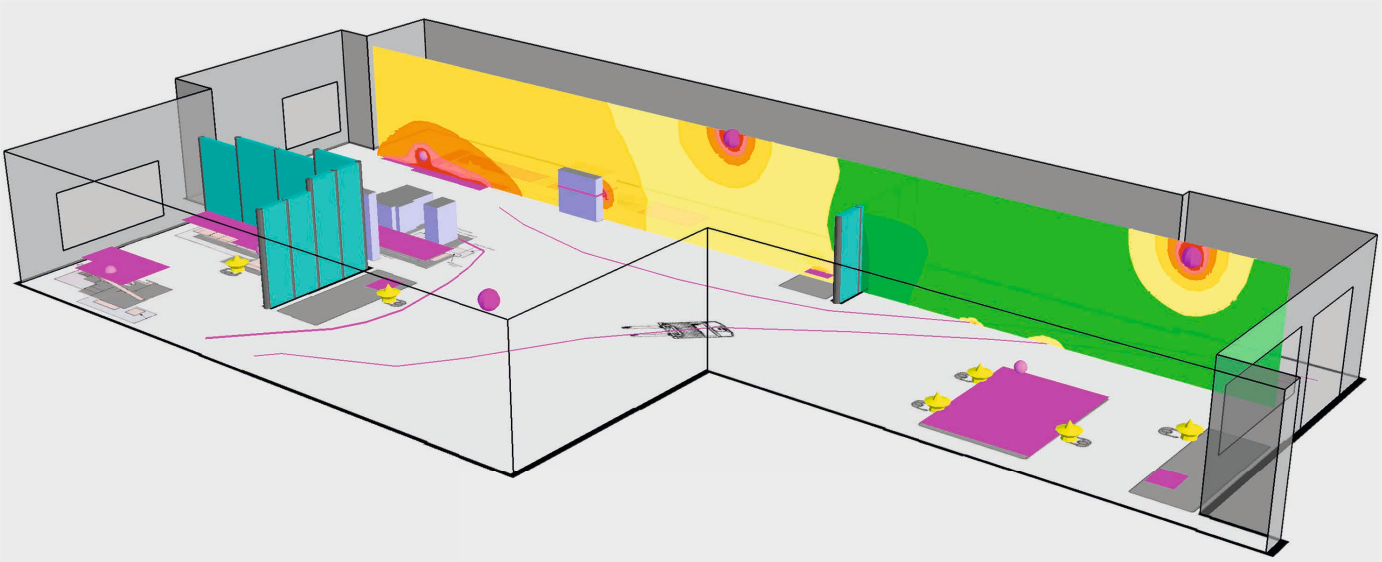
Efficient model definition
Easy to use interface

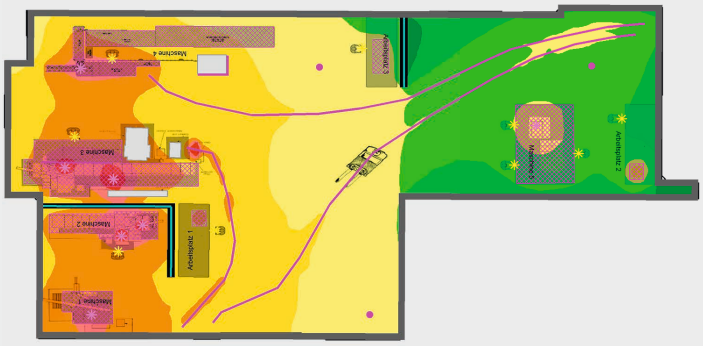
Noise reduction measures
Optimization of abatement measures to improve the sound quality

05.08.2025

Indoor Sound Propagation

The calculation of interior noise levels in working rooms is in SoundPLAN based on the VDI 3760 or our state of the art Sound Particle Model (SPD), which is quality assured according to E DIN 38457:2024. It is possible to take into account any room shape, local screening effects and local absorption areas. This gives you the ability to optimize sensible noise reduction measures like absorbers and screens in rooms with workplaces. The complete integration of this module in the SoundPLAN program package takes advantage of the existing and easy- to-use input and output capabilities. This gives you the possibility to create and compare different variants in the most convenient way. The acoustical input data (emission and absorption) can be organized in the well-structured libraries containing already hundreds of elements in octave or even in third octave bands. The computed results can be single values at working places, sound decay curves (SAK), horizontal and vertical noise maps. All calculations are carried out with the fast and most advanced SoundPLAN calculation core using the full power of your computer with multithreading and OpenCL (calculations on graphics cards). The integrated concept of the interior noise calculations and the superb definition of the surrounding building facades gives you the ability to use the calculated indoor levels directly for your environmental noise assessment study in the surroundings of your industrial site. There is no other software offering this complete linkage and easy of use - saving your time and money.



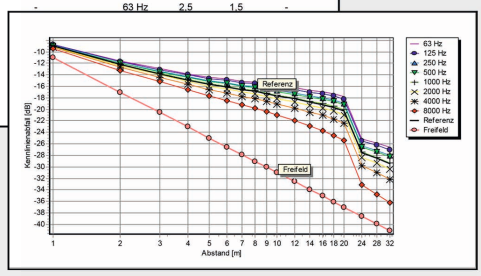


Pegelüberhöhung über Freifeld DLf [dB]

	Nah 1..5 [m]	mittel 5..16 [m]	Weit 16..64 [m]
63 Hz	6,2	14,4	-
125 Hz	6,1	14,1	-
250 Hz	5,8	13,6	-
500 Hz	5,7	13,4	-
1000 Hz	5,5	12,8	-
2000 Hz	5,3	12,3	-
4000 Hz	4,9	11,4	-
8000 Hz	4,3	9,6	-
Referenz	5,5	12,7	-

Kennlinienabfall DL2 [dB/r -> 2r]

	Nah 1..5 [m]	mittel 5..16 [m]	Weit 16..64 [m]
63 Hz	2,5	1,5	-



Representation of a floor plan with grid noise map, displaying a 3D view with cross section noise map and a sound propagation curve.

Software Designers and Consulting Engineers

Experts for Noise Control and Room Acoustics

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