

The Building Acoustics Planning System





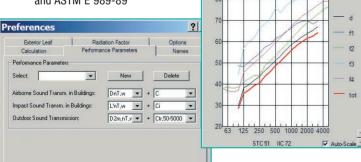
The software-tool for calculations In building acoustics

BASTIAN is the most advanced software for predicting the sound insulation in buildings based on the European standard series EN 12354.

BASTIAN calculates the sound insulation regarding the following aspects:

- ☑ airborne sound insulation between rooms (according to EN 12354-1)
- impact sound insulation between rooms (according to EN 12354-2)
- E airborne sound insulation against outdoor sound (according to EN 12354-3)
- **BASTIAN** is highly flexible to handle all types of calculations:
- calculations in third-octave band width or with single number ratings
- s for all parameters to express building performance according to ISO 717-1 and -2 (including the spectrum adaptation terms)
- ☑ for parameters STC and IIC according to ASTM E 413-87 and ASTM E 989-89

OK



Cancel

Help

BASTIAN®

A fully Windows-based program user-friendly and easy to use

Some BASTIAN-features:

- calculation of the sound insulation based on data on the sound insulation of the transmitting elements and systems
- doors, windows, and air intakes can be inserted into the separating construction
- ☑ additional flanking elements or sound transmitting systems, such as ventilation and cable ducts
- ✓ junction types for combinations of heavy single and double-walls, lightweight walls and floors. and flanking cavity walls
- easy generation of variants by duplication and inversion of room situations for changed preferences
- ✓ calculation of the structural reverberation time in-situ
- ✓ correction of the radiation factor for flanking elements
- ☑ calculation of the interior sound pressure levels for sound transmission from the outside
- database with more than 1500 constructions and sound sources
- ✓ multi-lingual user interface in German, English, and in French





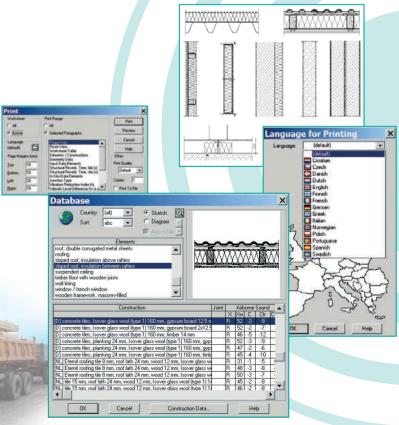
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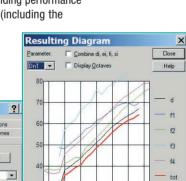
BASTIAN[®]



Data import & export

- database for constructions and sound sources expandable by the user
- import of sketch-files (BMP/JPG) for user-defined constructions
- import of noise immission spectra from Cadna A
- export of sketches for constructions
- export of all calculated data in MS-Excel-format
- configurable print-preview/print-outs
- print-preview/print-outs in 15 European languages





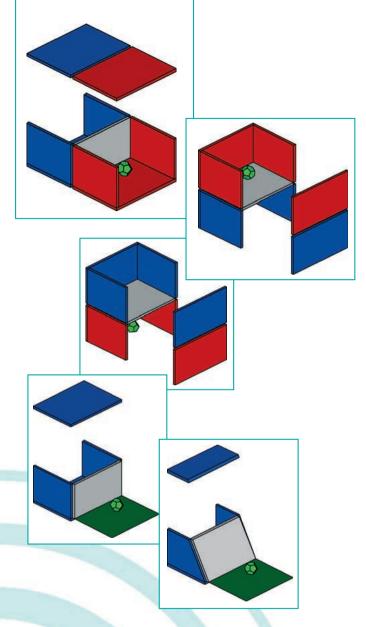
BASTIAN[®] - Auralization

Listen to the sound inside the receiving room!

optional extension for BASTIAN

- renders audible all calculation results for airborne sound transmission between rooms and from the outside
- no additional hardware required pure software solution (requires just a 16-bit sound card)
- ➡ 46 various interior (e.g. speech, stereo set, TV-set, several musical instruments) and exterior sound sources (e.g. road and air traffic noise, railway noise) and 9 different kinds of receiving rooms available
- considers 5 directions of transmission by use of the appropriate binaural head related transfer functions

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DataKustik

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