# New Features of CadnaB Version 2022 MR1

*The new features of **CadnaB** Version 2022 can be found here.*

**Note**

Besides many new functions, version 2022 MR1 also contains bugfixes which may have an influence on calculation results, see below in the section "Bugfixes". Due to these changes, we strongly recommend an update, which is available on our website (after login).

**New Features Version 2022 MR1**

- DIN 4109: Implementation of a combined evaluation parameter $R'_w|D_{n,w}$ with automatic assignment depending on the partition area *(Calculation | Configuration | Transmission airborne noise | $R'_w|D_{n,w}$)*.
- DIN 4109: Adaptation of the requirements according to DIN 4109-1:2018-01 and DIN 4109-5:2020-08 to the evaluation parameter $R'_w|D_{n,w}$.
- New dialog "Room/habitation assignment" in the “Project” mode for optimized assignment of rooms to habitations *(Tables | Room/habitation assignment)*.
- The selection of the habitations for editing the habitation assignment can be done directly via Multiselect and the context menu in the 2D view.
- New 2D habitation display when selecting habitations in "Project" mode.
- Implementation of a result table in the “Results” mode for the clear representation of transmission situations with an export as well as different filter functions *(Tables | Result table)*.
- Implementation of calculation presets that can be performed using the "Calculation presets" icon in the result table as well as in the lower part of the list box in the “Results” mode.
- Start a specific calculation for habitations or rooms using the context menu in the "Project" mode.
- DIN 4109: Direct output of values for the DEGA 103 sound insulation certificate from the result table.

**Bugfixes**

- DIN 4109: The partition area Ss was corrected to the gross area when calculating the flanking transmission in buildings.
- DIN 4109: The vibration reduction index for junction typ 48 and 51 is now calculated using the method for $K_{ij,min}$.
- DIN 4109: When verifying the exterior components, the correction $K_{AL}$ is already taken into account in the requirement (Requirement DIN 4109-1:2018-01).
- Adjustment of copy and paste logic for elements in “Constructions” mode.
- Bugfix in partition area determination of not rectangular ceilings.
- The net area of the partition is now also influenced by small components and elements (shutter box and air intake).

# New Features of CadnaB Version 2022

**New Features Version 2022**

- Extensive Undo and Redo function implemented, for example at modification of object attributes or geometry
- Export of construction data
  - via a button in the construction browser for all selected entries as .docx file. (Multiselect available)
  - via the menu "File → Export": Export of all constructions used in the project
- Extensive revision of the report, especially when using the calculation standard DIN 4109. Report now includes an output of a summary of all requirements.
- Constructions from DIN 4109-35/A1 now included.
- When using ISO 12354, a new calculation option for impact noise from bottom to top is available. The calculation must be activated in the configuration of calculations. (Method not part of the standard ISO 12354)
- ISO 12354-3: Facade correction $\Delta L_{fs}$ added according to Annex C
- Results dialog, tab Junctions: The detected junctions are displayed with an icon. With “mouse over”, the icon is shown enlarged.
- Import of construction data from software INSUL (Marshall Day Acoustics) *
- Search function in the construction browser: Search for country abbreviations, e.g. with the syntax "c=D" for Germany
- For user-defined, concrete double wall constructions, the reference to single wall constructions can now be modified (for calculation of flanking).
- Support for Windows 11
- New language: French

* Export/Import available with INSUL version 9.0.24

**Bugfixes**

- DIN 4109: A bug in the calculation of $K_{ij}$ for junction types 7,8 and 17,18 has been fixed. (this may influences calculation results)
- DIN 4109: A bug has been fixed which incorrectly determined the junction types 3/4 for horizontal room pairs with a wall offset < 0.5 m (type 2 is now correctly recognized). (this may influences calculation results)
- In the database of constructions for DIN 4109, concrete ceilings and ventilators have been corrected. (this may influences calculation results)
- ISO 12354: Automatic calculation of spectrum correction values for spectral data corrected (only when spectra are entered manually).
- DIN 4109, transmission from outside: The requirement is no longer checked if the receiving room is classified as "not worth protecting" (i.e. if $K_{Raumart}$ is invalid)
- Bugfix when using very long room names: Protocol could no longer be opened in this case.
- Bugfix regarding the visibility of objects in the "Project" mode
- Bugfix in the report output which caused a crash (only with the simplified model according to ISO 12354)
- Vertical room pairs with very small (possibly unwanted) overlap are now ignored during room pair search