

Insul release notes

Release 9.0.23 January 2021

- * Fixed install bug from 9.0.22
- * Updated calculation of C, Ctr corrections
- * Improved handling of user-chosen locations for materials files on Mac
- * Fixed window-resize crash on Mac
- * Added Cavity Width to the auto-generated system description
- * Minor interface improvements for Rainfall, Floor cover and Glazing tabs
- * Added alert for modelling porous facings with very high flow resistivity
- * Improved detailing of Leaks on printouts
- * Improved Outdoor-Indoor Calculator to prevent crashing when RT is less than 0
- * Fixed Outdoor-Indoor Calculator single figure index bug
- * Added new Settings feature to adjust font size on main printout
- * Added new items to INSUL Materials list
- * Added new items to INSUL Absorption list

Release 9.0.22 January 2020

- * Bug fix in Outdoor-Indoor calculator tool to maintain data integrity across elements

Release 9.0.21 January 2020

- * MacOS 64 bit version of INSUL is available
- * Fixed bug in Triple Glazing routines with argon filled cavities
- * Tidied materials lists
- * In the Materials Editor, adjusted minimum values for the density field
- * Minor updates for usability of tables and tab keys

- * Revised routines to reduce memory leaks and access errors

Release 9.0.20 July 2019

- * Fixed bug recalling Single constructions with no porous facing
- * Improved Composite TL Calculator functionality in Mac version
- * Fixed bug in Double Impact Sound Pressure Level calculations with no cavity infill
- * Improved pop-up menu display in Mac version
- * Corrected access violation error which occurred occasionally when changing language
- * Minor printing improvements for Test Panel sizes
- * Bug fix for rain noise models for orthotropic panels
- * Improved Materials Editor closing routines
- * Updated illustrations to improve rendering of cavity infill on file open
- * Revised update-checking routines to prevent hanging
- * Fixed bug for cavity details for Pitched Roof frame type

Release 9.0.19 May 2019

- * Updated illustration dimensions for Ceilings, Floors and Roofs
- * Fixed bug with resetting material lists upon Materials Editor close
- * Fixed illustration bug for plotting CompositeSteelFloor systems
- * Updated Indoor/Outdoor Calculator for improved printing of third octave band tables
- * Fixed Composite TL Calculator printing bug for single octave tables
- * Increased Indoor/Outdoor Calculator area and volume size limits
- * Improved recollection of model details for PIR and similar frame types
- * Tidied Porous tab layout to prevent overlapping lists
- * Updated display for Custom materials to show in blue font
- * New items added to INSUL Materials list
- * New items added to INSUL Floor Cover list

- * New items added to INSUL Absorption list
- * Minor amendments to printouts to better handle very long descriptions
- * Minor translation updates for German and French

Release 9.0.18 November 2018 (Mac only)

- * Sewell's correction wasn't applied to triple panels (since v9.0.11), added it back
- * Panel stiffening wasn't being applied with 16g (1.6mm) steel studs, added them.
- * For Composite Steel panels, in materials editor, prevent Rib height being greater than panel thickness

Release 9.0.17 October 2018

- * Fixed bug for updating cavity infill thickness
- * Updated translation of menu headings
- * Improved printouts by preventing word wrapping of the header and cavity descriptions
- * Fixed save file bug in the Composite TL Calculator
- * Improved state handling in the Composite TL Calculator
- * Updated chart export and illustration export to save to users My Documents
- * Fixed bug in the Materials Editor for ElasticCore materials

Release 9.0.16 October 2018

- * Update to correct issue with cavity infill flow resistivity

Release 9.0.15 October 2018

- * Implemented Trial License feature for Mac OSX
- * Improved usability for adding porous facing to Single constructions

- * Fixed bug with application of porous facing to Floor and Roof constructions
- * Updated illustrations to correct layouts for Ceiling, Floor and Roof constructions with no connections
- * fixed bug in Outdoor to Indoor calculator that wasn't copying 1/3 octave values for sound reduction spectrum (worked in octaves)

Release 9.0.14 September 2018

- * Updated calculations for floor with more than one layer in Panel 1
- * Updated chart to prevent overlapping with Comparison buttons
- * Fixed printing bug which displayed a porous description for models without a porous facing
- * Fixed printing bug which displayed a floor cover description for walls and ceilings

Release 9.0.13 September 2018

- * Fix problem that you could not alter thickness of cavity infill
- * Fix problem with copy and pasting results.
- * Copy illustration now saves the picture/illustration to a file in the users Appdata folder
- * Fixed illustration where cavity absorber is vertical instead of horizontal
- * Fixed problem with SonArchitect export
- * Fixed problem with adding porous absorber to ISPL and rain noise calcs
- * Fixed problem with floor cover selection for light weight constructions
- * Improved combo box selection functions in Materials Editors
- * Updating chart legends for rain noise and ISPL calculations
- * Updated description for Floor constructions, so the floor cover is listed first
- * added CDM HR 50 floating floor and some AcoustiCork floor underlays
- * CertainTeed materials modified Young's Modulus for some boards

Release 9.0.12 July 2018

- * SoN export wasn't working, hopefully fixed.
- * Rain noise bug (for decimal separator as ,)
- * Fixed bug for new frame/connection types with no Impact calculation procedures

Release 9.0.11 May 2018

- * Fixed an open-file bug which occurred when using comma as the decimal separator
- * Updated rating methods for rain noise calculations

Release 9.0.10 May 2018

- * Fix Printing bug (no construction details printed, only leak stuff)

Release 9.0.9 May 2018

- * Re-worked Glazing algorithms to try and get the best empirical match between available data and INSUL
- * Add 0.75mm BMT steel studs
- * beginnings of Chinese Translation (early days)
- * Adding joist and stud dimensions to printouts
- * Fixing bugs with entering cavity dimensions
- * Minor additions to the Materials database
- * Updated calculations for leak predictions
- * Fixed minor bugs on Leaks tabs
- * Added leak details to printouts
- * Improved reliability of filtering functions in the Materials Editor
- * Updated string handling in search boxes to manage empty strings

Release 9.0.8 February 2018

- * Added some decimal places to English units display.
- * Fixed crashing when selecting Mini-orb roofing
- * In Outdoor to Indoor calculator fixed mucked up grid when switching between octave and 1/3 octave
- * Added 28mm Furring Channel (Australian and New Zealand connections lists)
- * Fixed problem in SonArchitect export for glazing
- * Added Israel as a region
- * add check box to force cavity width to remain constant (stud sizes adjust to maintain cavity width)
- * Partition dimensions now showing in OSX
- * Altered colour of buttons etc to make selections easier to see
- * Improvements to Glazing section (add check box for timber sash windows, improved triple glazing algorithms for normal aluminium frames)
- * Added CertainTeed materials
- * Made most woods orthotropic.
- * Printing function added to the Materials Editor
- * Undo and Redo functions added to the Materials Editor
- * Undo and Redo functions added to the Composite TL Calculator
- * Added an underlay selection box to the Materials Editor Floor Covers tab
- * Updated Composite TL Calculator to better handle very small element areas
- * 'All regions' searching option added to the Materials Editor search window
- * Revised styling for buttons on the main INSUL window, including options in the View menu to change Style and layout
- * Revised styling for the Materials Editor search window, using expander lists
- * Updating Materials Editor form size for improved display on Surface Pros
- * Add STC/Rw single panel rating to Properties display.
- * Can now select and show a frame for a single panel, useful for getting the illustration more correct in some situations

* As a consequence of last item we have changed the way you add a porous facing, now added in Frame 1 (no longer on the porous page).

Release 9.0.7 October 2017

- * Hopefully got on top of printing issues (previously only 600 dpi really worked properly)
- * Add Cold formed steel joists as option for ceilings and floors
- * Add load bearing steel studs with resilient rail (1.0-1.6mm or 20g to 16g)
- * Add prediction of impact sound for plastic foam underlays.
- * Fix incorrect addition of impact sound levels for octave band display
- * Re-instate transmission loss for specific angles of incidence for free field on source side
- * Re-enable display and entry of dynamic stiffness (metric units only)
- * Added panel information to 2D display
- * Fixed illustration of batten and cradle spacing for 400mm etc
- * Minor translation fixes
- * Added margin of error to printout
- * Correctly set, and store and recall setting of frequency ranges for C and Ci
- * Increase length of project number and name
- * Fix problems in SONarchitect export of floors (not export airborne and impact at the same time)
- * Added EVA as a glazing interlayer option
- * Added GTEC resilient acoustic stud as a frame option
- * Many small improvements to the French translation
- * Beginnings of Polish and Chinese translations
- * Fix bug in Impulse reponse generator in Auralisation (didn't affect the main auralisation part)
- * Fix bugs in English units for surface mass dimensioning of glazing constructions
- * More work on improving the Mac OS version

Release 9.0.6 October 2017

- * Printing of 2D illustration
- * More tweaks to printing of custom logo
- * Adjust scale of 2 D illustration (use mouse wheel)
- * Fix bug of Ceiling/Floor absorption not correctly showing in Description Box
- * Numerous updates to the Outdoor-Indoor calculator
 - Can change colour of lines on graph
 - Moved location of Dntw line as this is an overall quantity
 - Fixed equation constants for English units (and corrected it for metric units)
 - Added a Save As button
- * Added Rw+Ctr to display (its quite small at this stage)
- * Display floor cover and underlay parameters and enable editing thereof for heavy floors
- * Correct drawing of trapezoidal profiles when used on panel 2 or 3 so the ribs poke out instead of in
- * More work on Outdoor to indoor calculator (enable bigger graph when screen is enlarged, fixed issues with printout)
- * Improved WAV file library feature. Can now set a default folder as your library and store your own WAV files there.
- * Improvements to triple glazing calculations
- * Improved printouts for rain Noise calculations (added rain fall rates, roof areas, rain type etc)
- * fixed default value of PIR for English units
- * Fixed translation of drop down lists in the Materials Editor.
- * Fixed bug when showing properties of Porous material
- * Selected material should be at top of the box at (almost) all of the time now.
- * Cursor changes to cross hairs when over illustration to indicate you can click for properties.
- * layers 2 to 6 by default have number of layers = 0 , but now when you choose a material it automatically sets to = 1

Release 9.0.5 August 2017

- * Added 2 D illustrations as an option instead of 3 D
- * Fixed up setting for show or no show flanking on graph.
- * Fixed autoscale so it is a bit more logical.
- * fixed logo display (aspect ratio of logo is preserved.)
- * Outdoor calculator various small improvements (descriptions as graph legends, graph on printout, improved grid behaviour)
- * Added a line to the Outdoor to Indoor calculator for including an arbitrary insertion loss (could be used for shielding or screening for instance)
- * Added Stucco to USA materials list, Custom Orb and fibre cement to Australian list, USG Structo Concrete
- * Fixed some issues with auralisation
- * Fixed floor infill poking through floor if too thick. Showed display of 2nd blanket in floors.
- * Completed most everything for the French translation.
- * Small improvements to the Materials Editor.
- * Added Chilean materials
- * Tidy up some flooring material data
- * French translation improved.

Release 9.0.4 July 2017

- * Can be downloaded from <http://www.insul.co.nz/media/29470/Update90r04.exe>
- * Fix left axis title on graph for impact calcs (show correct label)
- * Don't show flanking curve when not appropriate
- * Store and recall setting of dBA,NC,PNC or NR
- * Improved accuracy for strapped and lined walls
- * Added Akustik mounts (ceiling and floor)
- * Made key update function work
- * Enabled SONarchitect export.

- * Fixed display of wrong frequency range for Ctr
- * Removed DnT,w from printout.
- * Added floor cover description to print out
- * Added a few properties to line at bottom of screen.
- * Fix bug that changed cavity width after closing Settings form (apparently changed STC/Rw when changing eg Room Volume)
- * Get Update function working again (from this update onwards)
- * Fix minor bugs with Materials Editor search function
- * Added legend to Materials Editor Floor Cover chart
- * Updated handling of Batten and Cradle constructions for Floor calculations
- * Spanish translation of main form (other forms still to come).

Release 9.0.3 June 2017

- * Add left and right steel studs with an airgap.
- * Fixed some install problems when no regional materials were visible
- * Flanking curve was not showing for masonry constructions.
- * Rain noise, can now set room volume correctly
- * Fixed problem on start up occurring with systems with 2 screens of different size.
- * Flanking options appear when clicking "show flanking"
- * Unlinked core density for panel 1 and panel 2.
- * Orthotropic panels now have an illustration (previously blank)
- * German translation now available
- * Tidy ups of composite transmission loss calculator
- * Fixed bug with printout of OITC (was always 9 dB) now correct.
- * Now shows the marked block in grids (essential when copying for instance)
- * Outdoor to Indoor equation has correct constant for Imperial units.
- * Fixed nasty dip when using two panels with critical frequencies more than 2/3 octaves apart
- * Custom stud file so that users can create their own database of standard stud sizes

Release 9.0.2 May 2017

- * Add copy and paste functions to composite TL calculator, and to outdoor-indoor calculator (so you can transfer results).
- * New Help file.
- * Numerous small bug fixes.
- * Added calculator to estimate the flow resistivity of porous materials

Release 9.0.1 April 2017

- * Added search feature to floor cover list
- * Added National Gypsum plasterboard materials to US regional list

Release 9.0.0.7 April 2017

- * Initial release (with outdated Helpfile). List of new features compared to version 8
- * New user interface design with 3 D illustration of the construction that can be zoomed and rotated.
- * Better utilisation of small or big screens. (Elements of interface can be re-arranged for personal preference)
- * Prediction of floating floors using polystyrene or mineral wool with concrete screed on top.
- * Double absorptive blankets can be selected (means illustrations can be more realistic)
- * Prediction of external cladding systems using PIR or Polystyrene insulation
- * Better auralisation with a user expandable library of sounds.
- * Ability to record auralisations for later replay without INSUL
- * New types of connections and improved illustrations
- * Thermal insulation of glazing (according to EN 673)
- * Database of steel or timber studs (standard sizes selected from menu).
- * Pitched roofs can now be predicted

- * Multi-platform (Windows, Apple Mac Os) (this may be a couple of months away)
- * Better search through materials files.
- * Filtering lists by category or manufacturer.
- * New types of frames/connections such as Batten and Cradle isolation pads