Press release

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Five steps to analysing thermal bridges

Thermal bridge calculator now available online: Easy calculation of complex thermal technology key terms in real time.

Baden-Baden, 16 October 2014 – In respect of the overall energy efficiency of new buildings, the new EnEV energy conservation regulations require a 25 percent increase in thermal technology performance by 2016. As a result, thermal bridges are becoming a sensitive area in buildings. Since September 2014, Schöck has been offering an internet-based system for real-time and simple calculation of various complex thermal technology key terms at www.psi.schoeck.de. The calculator enables planners to produce substantiated thermal bridge analysis in just a few steps and be able to print it out immediately.

Based on the construction, the new thermal bridge calculator computes two-dimensional heat flows, isothermals, surface temperatures and psi values. The calculation results provide architects, structural engineers and building physicists with all the information they need to produce detailed thermal bridge analysis. The results log contains all relevant properties and notes relating to the building structure. For example, it reveals whether the building structure is at risk and whether mould and condensation prevention has been adequately considered. If all minimum requirements are met, planners are automatically provided with proof of compliance with the minimum thermal insulation requirements of EnEV 2014.

The psi value in 5 steps.

Five steps are needed to calculate the psi value:

1. Enter the as-is situation of the balcony connection (e.g.; freely projecting, supported, with height offset)
2. Determine the planned wall structure (monolithic wall structure or classic thermal insulation composite system)
3. Specify the structure of the individual components for the wall, floor and balcony slab
4. Select the matching type of Schöck Isokorb and load-bearing capacity, together with the required insulation material thickness
5. Based on the input, the result is calculated and a log produced

A three-minute tutorial explains the use and functions of the program. In addition, information ‘help’ boxes are built into the program to simplify individual steps and assist with issues such as input box entries.

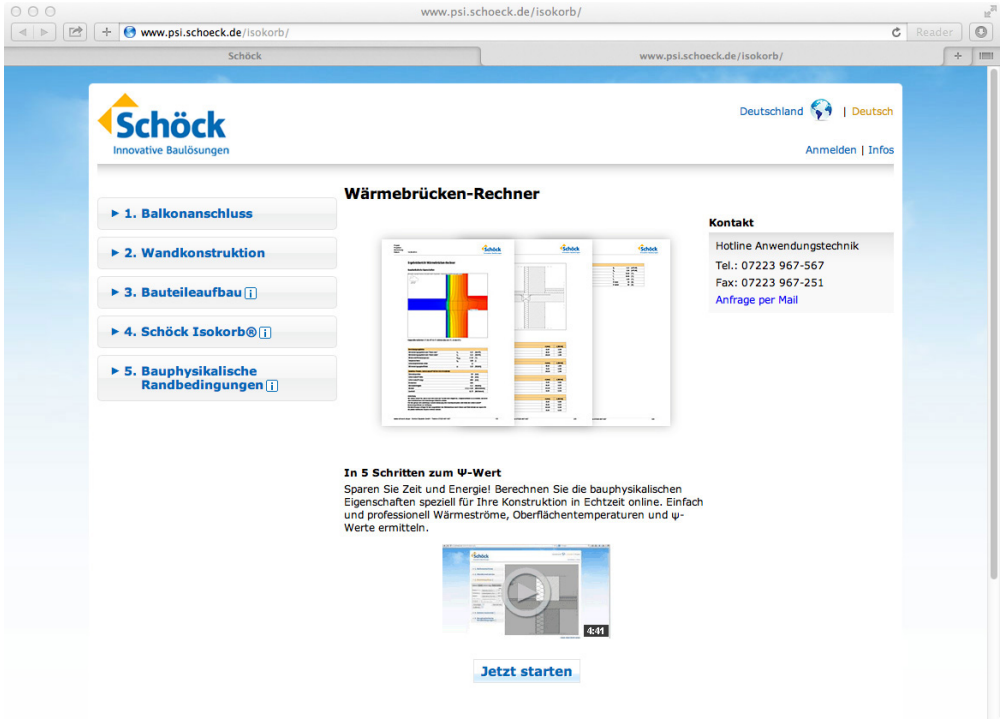
Always current, no need for updates.

Because the simulation program developed in collaboration with Syscon Informatik and Sommer Informatik is internet-based, there is no need for software updates and downloads. Users always work with the latest version. The program runs on any end appliance, irrespective of the operating system. The thermal bridge calculator will initially be available in German, with English and French versions of the program following next year.

2,746 characters (incl. spaces)

Caption

[Wärmebrücken-Rechner.jpg]



Based on the construction, the new thermal bridge calculator computes two-dimensional heat flows, isothermals, surface temperatures and psi values in just five steps.

Photograph: Schöck Bauteile GmbH

For questions and feedback, please contact

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