

## Certificate and validated Performance

Worldwide, the market for highly energy efficient buildings is growing rapidly, and with it the need for reliable, performing components. But often, the requirements as well as the options to reach them are unclear and some producers might claim results that they cannot guarantee in the end. The Passive House Institute certifies highly energy efficient components according to international criteria in order to meet comfort and indoor air quality criteria. In the certification process, PHI offers consultations for manufacturers to meet this criteria. The output is reliable data for input in the PHPP and validated energy balance tools.

### Benefits of certification

- Quality assurance for product design of high-performance buildings
- Entrance into a growing market
- Increased market visibility and product recognition
- Independently tested and certified, use of the Passive House Component seal
- Presentation in Passive House Institute component database and integration in PHPP

## About us

### Passive House Institute

PHI is an independent research institute that has played an especially crucial role in the development of the Passive House concept – the only internationally recognized, performance-based energy standard in construction.

[www.passivehouse.com](http://www.passivehouse.com)

### International Passive House Association (iPHA)

iPHA is the global network for connecting Passive House stakeholders, promoting the Passive House Standard and disseminating relevant knowledge and information all around the world.

[www.passivehouse-international.org](http://www.passivehouse-international.org)

### PHPP and designPH – Quality assured design

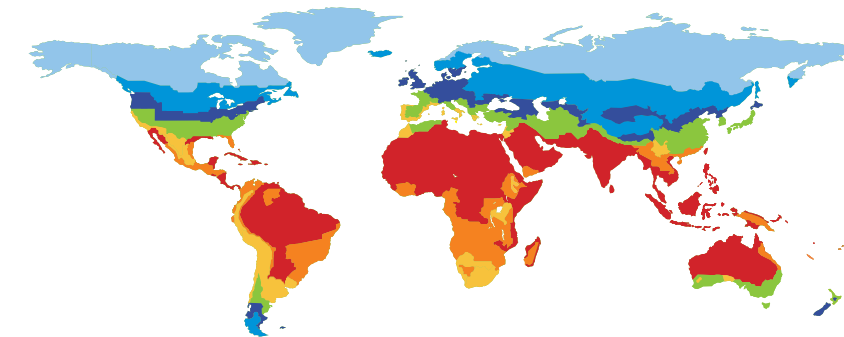
The Passive House Planning Package (PHPP) is an affordable energy balancing tool for high performance building standards. PHPP has a validated result accuracy and can be used reliably by all stakeholders. The PHPP can be combined with designPH, a SketchUP plugin which allows data input via 3D sketches.

[www.passivehouse.com](http://www.passivehouse.com) | [www.designph.org](http://www.designph.org)



## Passive House Institute Component Certification

Apply for the world's most ambitious energy efficiency seal!



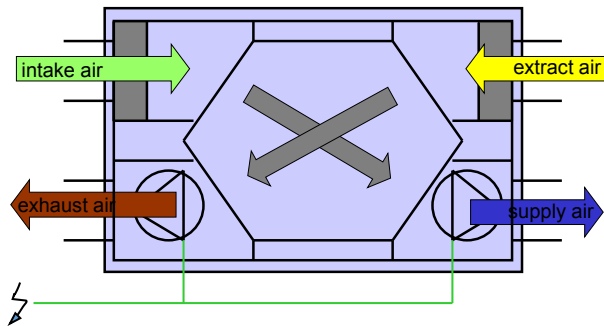
Get in touch with us! | [components@passiv.de](mailto:components@passiv.de) | [www.passivehouse.com](http://www.passivehouse.com)



## Building services

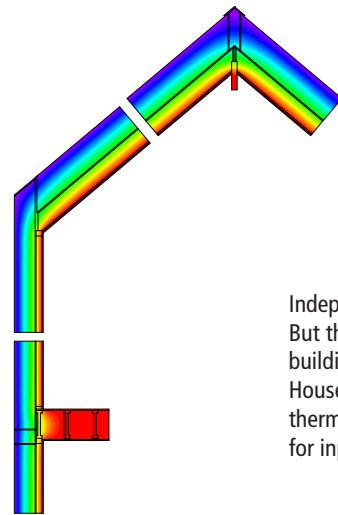
Reliable performance data based on independent laboratory measurements suitable for energy balance calculation of the building:

- Ventilation with heat recovery
- Mini-split units for heating and cooling (air-to-air)
- Heat pump units (air-to-water)
- Drain water heat recovery
- Compact heat pump unit



Contact Kristin Bräunlich: [kristin.braeunlich@passiv.de](mailto:kristin.braeunlich@passiv.de)

## Opaque envelope



Independent of materials, the R-values of a building envelope counts. But that's not all - thermal bridges are highly relevant in Passive House buildings. Regarding both: Energy efficiency and damage risk. The Passive House Institute's Component Certification helps manufacturers reduce thermal bridges and avoid moisture risks, providing reliable thermal data for input in PHPP.

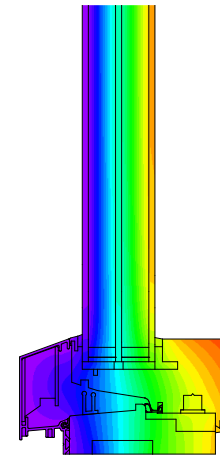
Contact Dr.-Ing. Benjamin Krick: [benjamin.krick@passiv.de](mailto:benjamin.krick@passiv.de)

## Transparent components

Energy efficient windows are crucial for highly energy efficient and Passive House buildings. In terms of comfort, moisture and transmission losses, they are the weakest part of the building. They do however provide daylight and solar heat gains too. As part of the certification process, Passive House Institute specialists will guide manufacturers to improve their products and produce reliable thermal data for input in PHPP. According to their performance, windows and other transparent components are classified in Passive House efficiency classes from pHC to pHA+.

### Get started:

The Passive House Institute also offers the calculation of reliable thermal values and the publication in a PHPP Input Data Sheet based on AutoCAD drawings and material properties, provided by the client.



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