

Competition Ventilation for residential buildings



**COMPONENT
AWARD
2016**

Passive House Institute

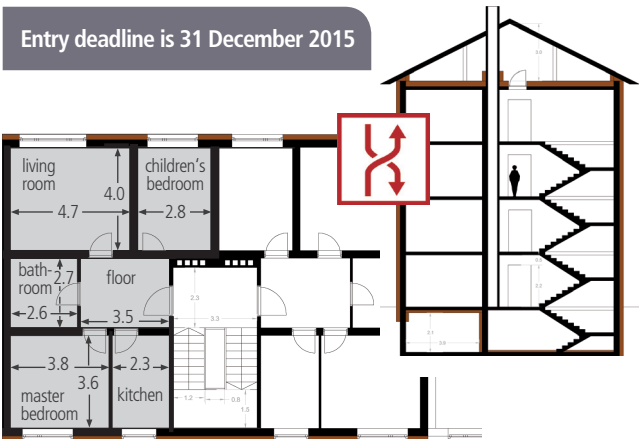
Competition

The first Component Award for ventilation systems will be presented at the 20th International Passive House Conference held from April 22-23 in Darmstadt, Germany. The Passive House Institute is following the success of the two previous Component Awards which focused on Passive House windows.

This year's focus is on **cost-efficient ventilation for refurbishments of residential buildings** using the example of a building from the 1960s. The sought-after holistic ventilation solutions for the whole building should provide both a simplified installation as well as very good energy characteristics.

The lifecycle assessment considers all costs (investment costs for ventilation device, components and ducting system as well as installation costs, additional costs such as coverings or false ceilings, if required, and maintenance costs). In addition to the lifecycle costs, the evaluation will also take into account aspects such as practicability, architectural quality (e.g. integration of the device) and design.

The winners will be selected by a jury and the prizes will be awarded at the 20th International Passive House Conference held in Darmstadt.



Detailed competition documents will be available in August 2015.

Participation

- Participation is possible with all ventilation devices that have been certified by the Passive House Institute.
- The Award's focus lays primarily on components available for purchase. Innovative solutions, which may not currently be on the market, are however also requested, amongst others components suitable for step-by-step refurbishment, provided that the unit complies with the legal standards and the costs are calculable.
- Participation from interdisciplinary teams of manufacturers, architects and ventilation designers are requested, in order to develop successful overall concepts. Especially for centralized ventilation solutions, it is highly recommended to involve experts in order to comply with the respective requirements for fire protection.
- This year's Component Award will be awarded for the climatic zones with a cool, temperate climate (reference location: Frankfurt, Germany).
- **Entry deadline is 31 December 2015.** All relevant energy values must be available in a verified form by this time. Certifications in process may also be considered, if independently verified energy data is already available.
- Documents to be submitted: Participants must deliver design plans with clear documentation of ducting, position of ventilation device and all relevant components. Clear documentation of technical data for all components (such as silencer, frost protection, ducts, outlets, overflow, etc) is also required. Energy values for the device are given with the certificate. Proof of compliance with respective sound levels is also required.
- In order to account for differing price levels in different countries, all quotations will be calibrated for Germany using the consumer price index.
- PHI will retain non-exclusive publication rights for all submitted documents.

Requirements / Details

- Design values: airflow 100 – 120 m³/h each flat/ 8 flats in total.
- In addition to the requirements for Passive House ventilation, the respective acoustic requirements in continuous operation must be considered (25 dB(A) in living areas, 30 dB(A) in functional areas). If these requirements are not met with the standard device settings, additional measures have to be considered accordingly (such as silencers, additional casing, etc).
- Assuming an inner-city position of the building, the devices shall provide a summer ventilation strategy.
- Frost protection: for devices not equipped with a suitable frost protection strategy, suitable additional measures are required accordingly.
- The documentation also should describe the solution for condensate drainage (if required).

New Product Certification?

Accelerated certification for new components is also possible for participants of the Component Award 2016, resulting in independently evaluated results. Contact us!



The Component Award 2016 is part of the EU-funded project

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Prizes

The winning components will receive a special certificate showing the Component Award logo along with the category and position achieved, which will be valid until the end of 2017. Winners will also have the opportunity to be presented to participants at the 20th International Passive House Conference.

Winners of the second and third position will receive a special certificate, which will be valid through 2016. The winners may also use the Component Award logo with the category and position achieved for their own advertisements for the validity period of the certificate.

The certificate and a plaque will be publicly presented at the 20th International Passive House Conference. The participants will be informed of the results of the Component Award in advance.

All participants will be recognized in the documentation of the Component Award, which will be published by the Passive House Institute. The names of the winners will be mentioned along with their ranking. Other participants may be mentioned upon request. This publication will contain all relevant results including the quoted prices. A complimentary copy will be provided to all conference participants.

Window Component Award 2015



Contact

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We look forward to your submissions and wish you the best of luck!

www.europhit.eu

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The logo for EuroPHit features the text 'EuroPHit' in a bold, black, sans-serif font. The 'PH' is significantly larger than the other letters. Two horizontal yellow bars are positioned above and below the text.

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