

Certificate

Passive House Tradesperson



Dr. Wolfgang Feist
64283 Darmstadt
Germany
www.passivehouse.com

Valid until 01.05.2017

Paul Pattern

Date of birth: 7th July 1977

is entitled to use the seal below during the five year validity of the certificate and is listed during this period in the list of Certified Passive House Tradespersons at www.passivehouse-tradesperson.org

The qualification was obtained according to the valid examination regulations

at: **Passivhaus Institut Dr. Wolfgang Feist**

in: **Darmstadt, Deutschland**

on: **1st May 2017**

The qualification has the following specialisation(s):

Building Envelope **Building Services**



Darmstadt, 1st May 2017

A handwritten signature in blue ink that reads 'Wolfgang Feist'.

Prof. Dr. Wolfgang Feist

Paul Pattern has successfully completed a 100 hour practical training, organised by Passivhaus Institut Dr. Wolfgang Feist.

This certificate does not replace any required professional qualification.

A Passive House is a building, in which thermal comfort [ISO 7730] can be provided solely by post-heating or post-cooling of the fresh airflow which is required for good indoor air quality [DIN 1946] - without using additional recirculated air.

{Definition}

Certified Passive House Tradesperson - Specialisation Building Envelope and Building Services

General principles / Passive House Basics

- Passive House criteria
- The 5 basic Passive Houses principles
- Building physics and ecology
- Airtightness
- Construction process and quality assurance
- Economic aspects

Specialisation - Building Envelope

- Insulated constructions
- Thermal bridge free construction
- Windows and other transparent building components
- Summer comfort
- Retrofits with Passive House components
- Implementation details

Specialisation - Building Services

Ventilation

- Basic principles
- Controlled ventilation with heat recovery
- Supply air heating in Passive House buildings
- Commissioning

Heat Supply

- Heat generation and distribution in Passive House buildings
- Implementation details
- Special aspects of refurbishments

The full version of the catalogue of learning objectives and further information can be found at www.passivehouse-trades.org.