

Certificate

Passive House Tradesperson



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

Valid until 11th May 2026

Manuel Antonio Gonzalez Toscano

Date of birth: 4th October 1973

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: **Castaño & Asociados**

in: **Online exam**

The qualification has the following specialisation(s):

Building Envelope **Building Services**



Darmstadt, 11th May 2021

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

Prof. Dr. Wolfgang Feist

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

General principles / Passive House Basics

- Passive House criteria
- The 5 basic Passive House 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

Basic principles - Building Services

Provision of basic knowledge regarding ventilation and heat supply in Passive Houses.

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