

# Certificate

## Certified Passive House Component

for cold climate, valid until 31.12.2026

Passive House Institute  
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Category: **Attic staircase**  
Manufacturer: **Wellhöfer Treppen GmbH & Co.KG**  
**97084 Würzburg, GERMANY**  
Product name: **Fire resistance-Passivehouse-Attic staircase with connection-system**

**This certificate was awarded based on the following criteria:**

A given component size of 1.40 m by 0.70 m results in:

$$U_D = 0.45 \text{ W/(m}^2\text{K}) \leq 0.80 \text{ W/(m}^2\text{K})$$

Taking the installation situations into account, the component meets the following criterion.

$$U_{D,\text{installed}} \leq 0.80 \text{ W/(m}^2\text{K})$$

Functional requirements of hygiene:

$$f_{Rsi} = 0.25 \text{ m}^2\text{K/W} \geq 0.70$$

**Following thermal bridge coefficients  $\Psi$  [W/(mK)] have been determined:**

	Wooden-beam ceiling	Concrete-ceiling	-
<b>Thermal bridge coefficient <math>\Psi</math> [W/(mK)]</b>	0.05	0.07	-
<b><math>U_{D,\text{installed}}</math> [W/(m}^2\text{K})]</b>	0.64	0.76	-

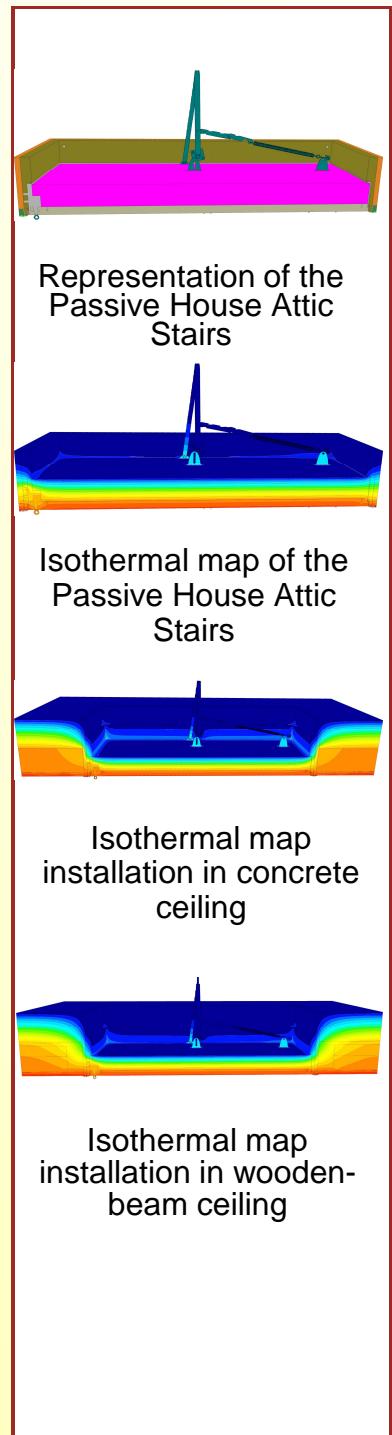
### Description

Coated chipboard ( $\lambda = 0.136 \text{ W/(mK)}$ ) with insulation panel ( $\lambda = 0.039 \text{ W/(mK)}$ ) with two EPDM sealings between frame and insulation panel. In order to reduce the thermal bridge of the installation and to enable the fire resistance of the construction, the supplied FS-PH-connection-system comprising sealing, jointplait and insulation filling ( $\lambda = 0.033 \text{ W/(mK)}$ ) is installed at the structural connection.

Please ask the manufacturer for a detailed report containing all calculations and results.

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

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