

## Certificate

### **Certified Passive House Component**

for cold climate, valid until 31.12.2023

Category: Attic staircase

Manufacturer: Wellhöfer Treppen GmbH & Co.KG

97084 Würzburg, GERMANY

Product name: Passive House Attic Stairs

with PH-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:

 $U_D = 0.48 \text{ W/(m}^2\text{K}) \leq 0.80 \text{ W/(m}^2\text{K})$ 

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

 $U_{D,installed}$   $\leq$  0.80 W/(m<sup>2</sup>K)

Functional requirements of hygiene:

 $f_{Rsi = 0,25 \text{ m}^2\text{K/W}} \geq 0.70$ 

## Following thermal bridge coefficients Ψ [W/(mK)] have been determined:

	Wooden- beam ceiling	Concrete- ceiling	-
Thermal bridge coefficient Ψ [W/(mK)]	0.05	0.07	-
U <sub>D,installed</sub> [W/(m <sup>2</sup> K)]	0.69	0.78	-

#### **Description**

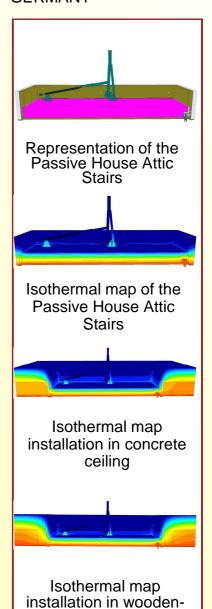
Coated chipboard ( $\lambda$  = 0.136 W/(mK)) with insulation panel ( $\lambda$  = 0.039 W/(mK)) with two EPDM sealings between frame and insulation panel. In order to reduce the thermal bridge of the installation, the supplied PH-connection-system comprising sealing, jointplait and insulation filling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

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

www.passivehouse.com

0817as03

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY





beam ceiling