

Certificate

Certified Passive House Component

for cold climate, valid until 31.12.2025

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.

 $U_{D,installed}$ \leq 0.80 W/(m²K)

Functional requirements of hygiene:

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

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 _{D,installed} [W/(m ² K)]	0.64	0.76	-

Description

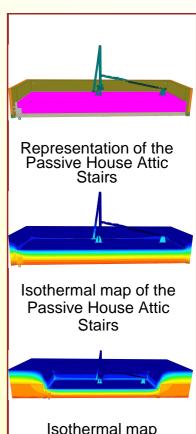
Coated chipboard (λ = 0.136 W/(mK)) with insulation panel (λ = 0.039 W/(mK)) with two EPDM sealings between frame and insulation panel. In order to reduce the thermal bridge of the installation and to enable the fire resistance of the construction, the supplied FS-PH-connection-system comprising sealing,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

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

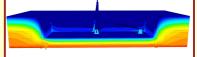
www.passivehouse.com

1069as02

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY



Isothermal map installation in concrete ceiling



Isothermal map installation in wooden-beam ceiling

