

Certificate

Certified Passive House Component

for cool, temperate climate, valid until 31.12.2019

Category: Attic staircase

Manufacturer: FAKRO Sp. z o.o.

33-300 Nowy Sącz, POLAND

Product name: LWT

This certificate was awarded based on the following criteria:

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

 $U_D = 0.51 \text{ W/(m}^2\text{K}) \leq 1.00 \text{ W/(m}^2\text{K})$

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

U_{D,installed} ≤ 1.10 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)]	0.10	0.14	-
U _{D,installed} [W/(m ² K)]	0.93	1.10	-

Description

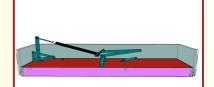
Attic stairs made of pinewood with thermally seperated metal fittings and 3 sealing-levels (EPDM). Attic stair hatch of Styrofoam ($\lambda = 0.031$ W/mK) with a coating of high density fibreboard (HDF). Sorrounding insulation ($\lambda = 0.035$ W/mK) to ceiling structure connection.

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

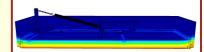
www.passivehouse.com

0832as03

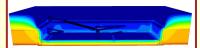
Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY



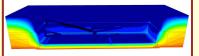
Representation of the Passive House Attic Stairs



Isothermal map of the Passive House Attic Stairs



Isothermal map installation in concrete ceiling



Isothermal map installation in wooden-beam ceiling

