

Certificate

Certified Passive House Component
for cool, temperate climate, valid until 31.12.2023

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.

$$U_{D,installed} \leq 1.10 \text{ W/(m}^2\text{K)}$$

Functional requirements of hygiene:

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

Following thermal bridge coefficients 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/(m²K)]	0.93	1.10	-

Description

Attic stairs made of pinewood with thermally separated 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). Surrounding insulation ($\lambda = 0,035$ W/mK) to ceiling structure connection.

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

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

cool, temperate climate

