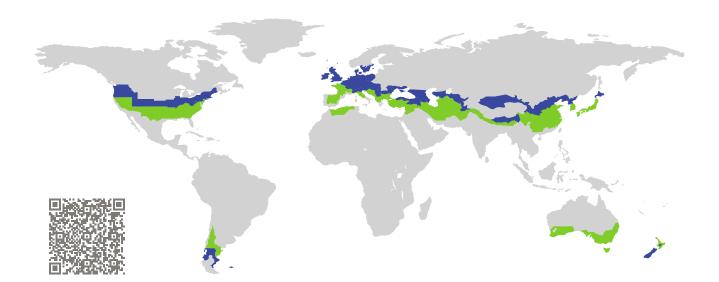
CERTIFICATE

Certified Passive House Component

Component-ID 0835ed03 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



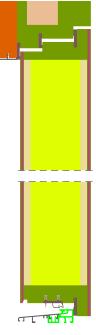
| Category: | Entry door(with glas section) | | | |
|---------------|-------------------------------|--|--|--|
| Manufacturer: | TSH System GmbH | | | |
| | Munich | | | |
| | Germany | | | |
| Product name: | TSH Passivhaus-Außentür | | | |

This certificate was awarded based on the following criteria for the cool, temperate climate zone

| Comfort | $U_D = 0.46$ | \leq | 0.80 W/(m ² K) |
|---------|-----------------------------|--------|---------------------------|
| | $U_{D,\text{installed}}$ | \leq | 0.85 W/(m ² K) |
| | with $U_{ m door \ leaf}^1$ | = | $0.34 W/(m^2 K)$ |
| | | | |

Hygiene $f_{Rsi=0.25}$ \geq 0.70

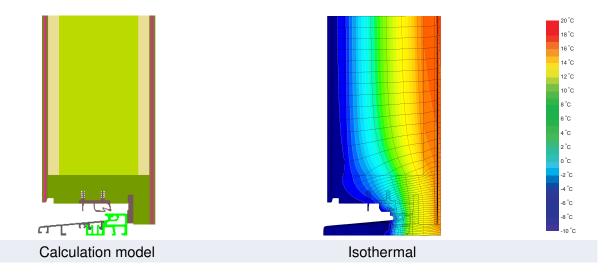
¹U-value of the insulated area of door leaf



(Inward opening)



www.passivehouse.com



Description

Door frame made of wood profiles (spruce 0,11 W/(mK)) insulated with soft wood fiber insulation (0,040 or 0,050 W/(mK)); door leaf insulation: PU-foam 0.028 W/(mK), threshold: thermally separated aluminum profile, the temperature factor requirement is not met at the threshold

Explanation

The U-values of the door apply to a door 1.10 m wide by 2.20 m tall.

A detailed report of the calculations performed in the context of certification is available from the manufacturer.

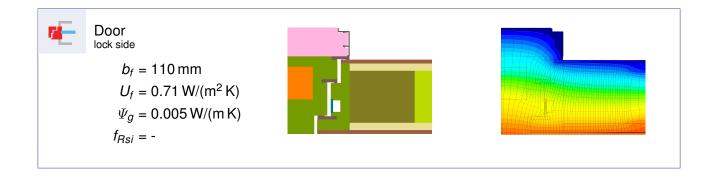
Unless stated otherwise, the air tightness was determined according to EN 1026 with respect to the joint length under climate load in conjunction with EN 1121 for the closed, non-locked door. The result corresponds at least to air-tightness class 3 according to EN 12207.

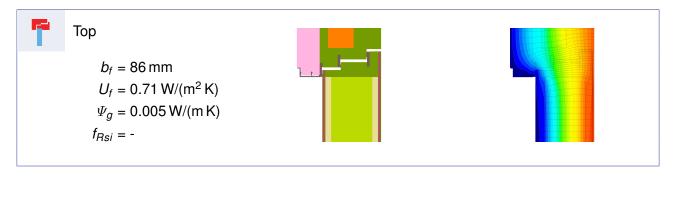
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

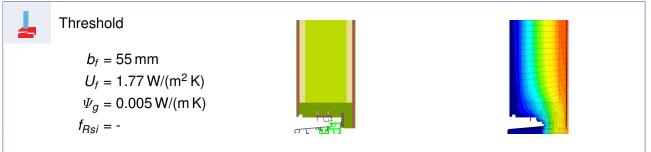
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

| Frame value | S | | Frame width <i>b</i> f mm | <i>U</i> -value frame <i>U</i> f W/(m ² K) | Ψ edge Ψ_g W/(m K) | Temp. Factor <i>f_{Rsi=0.25}</i> [-] |
|--------------------|-------|---|---------------------------------|---|------------------------------|--|
| Door hinge side | (DJ1) | 4 | 86 | 0.71 | 0.005 | - |
| Door lock side | (DL1) | 6 | 110 | 0.71 | 0.005 | - |
| Тор | (OH1) | f | 86 | 0.71 | 0.005 | - |
| Threshold | (OT2) | 7 | 55 | 1.77 | 0.005 | - |
| | | | Spacer: | Secondary | Secondary seal: | |

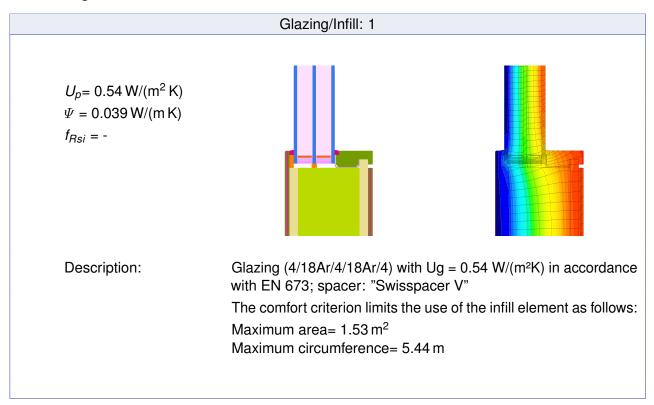
 $\begin{array}{c} \textbf{b}_{f} = 86 \text{ mm} \\ U_{f} = 0.71 \text{ W/(m^{2} \text{ K})} \\ \Psi_{g} = 0.005 \text{ W/(m \text{ K})} \\ f_{Rsi} = - \end{array}$



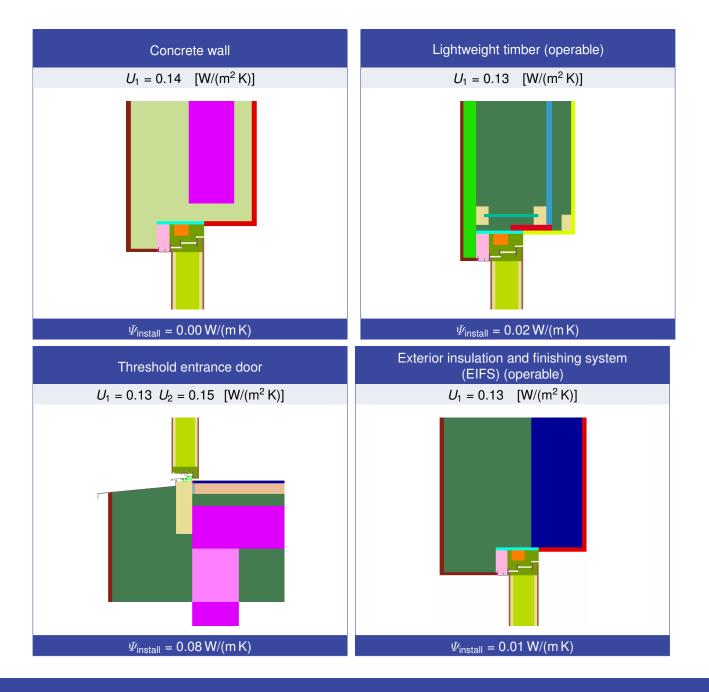




Door with glas section/infill



Component-ID: 0835ed03



www.passivehouse.com

www.passivehouse.com