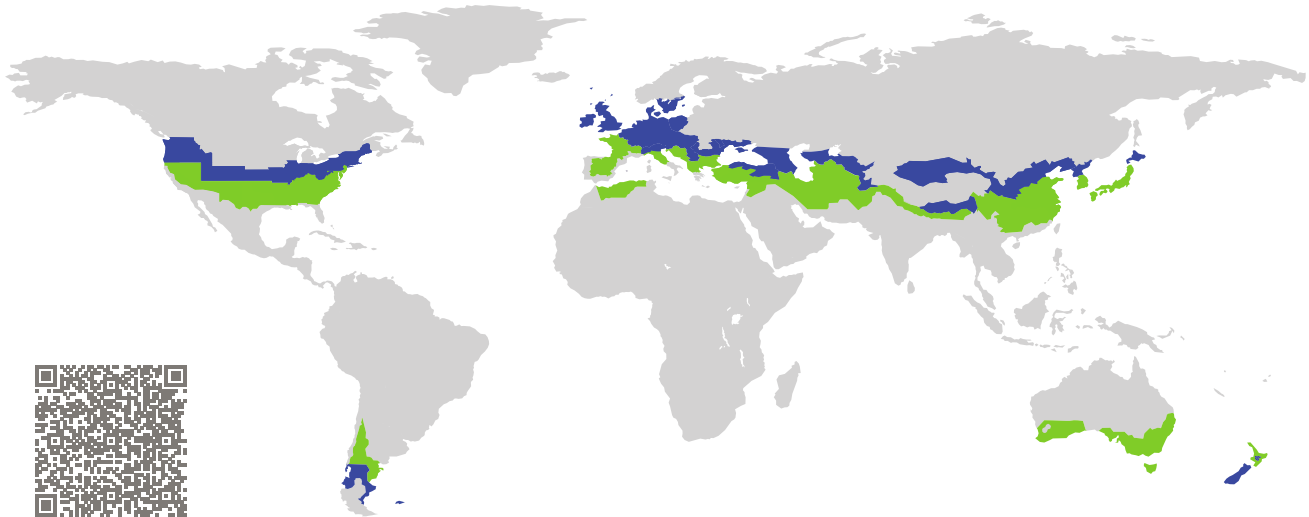


# CERTIFICATE

Certified Passive House Component

Component-ID 0189ed03 valid until 31st December 2026

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany



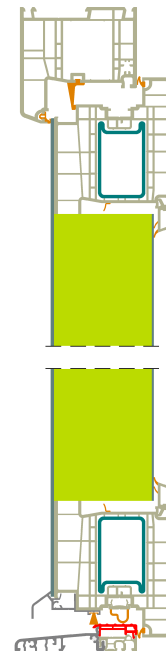
Category: **Entry door(with glas section)**  
Manufacturer: **Rehau Industries SE & Co. KG**  
**Rehau**  
**Germany**  
Product name: **Haustür GENE0 PHZ, mit Füllung**  
**Rodenberg einseitig**  
**flügelüberdeckend**

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

Comfort  $U_D = 0.68 \leq 0.80 \text{ W/(m}^2 \text{ K)}$   
 $U_{D, \text{installed}} \leq 0.85 \text{ W/(m}^2 \text{ K)}$   
with  $U_{\text{door leaf}}^1 = 0.39 \text{ W/(m}^2 \text{ K)}$

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

<sup>1</sup>U-value of the insulated area of door leaf



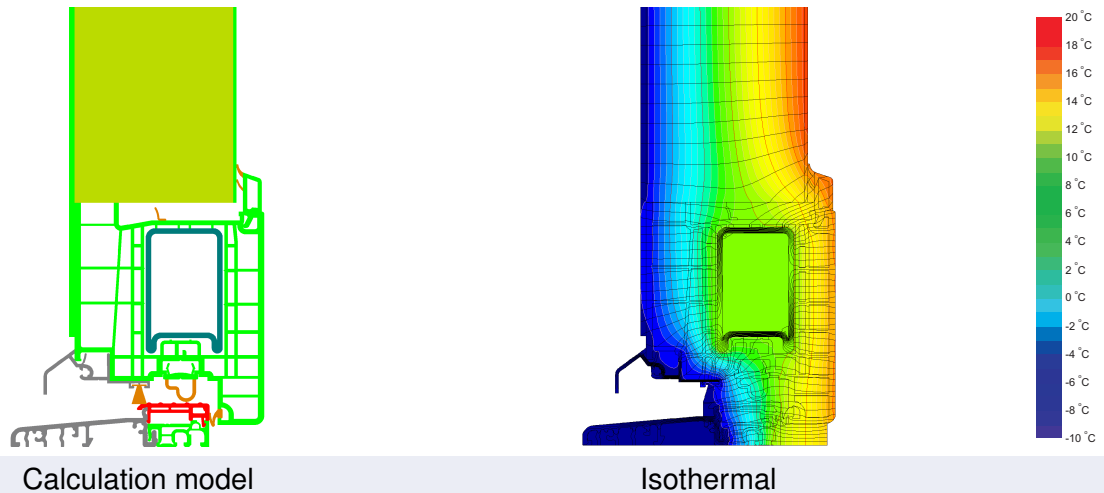
(Inward opening)

cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute



## Description

Door frame made of PVC profiles; partially with reinforcing steel profiles; Door leaf (thickness 76 mm) covered by PVC panels on both sides; door leaf insulation (thickness 72 mm): PU-foam 0.030 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.

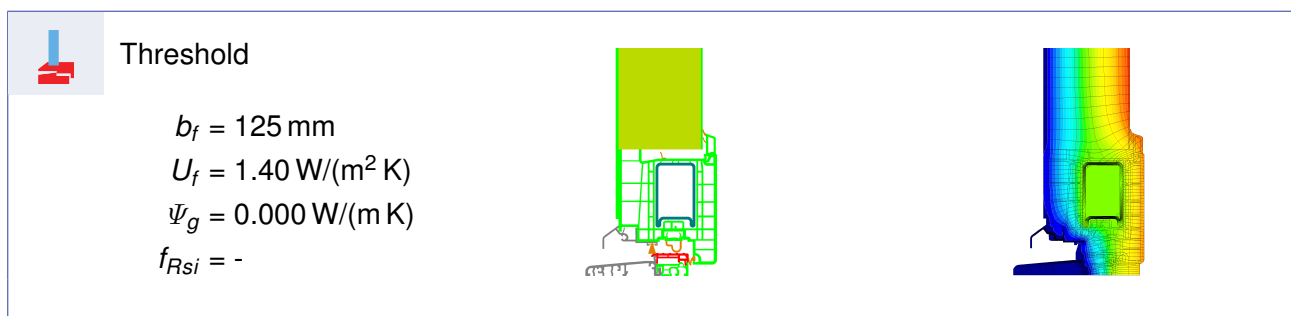
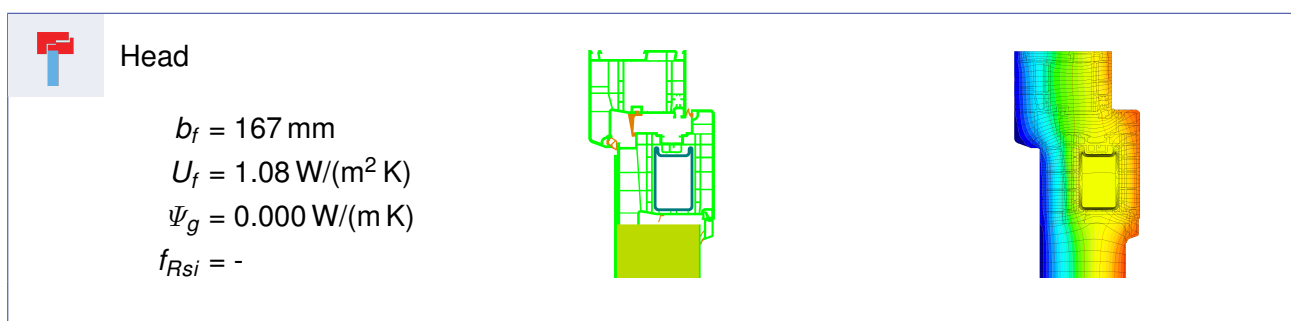
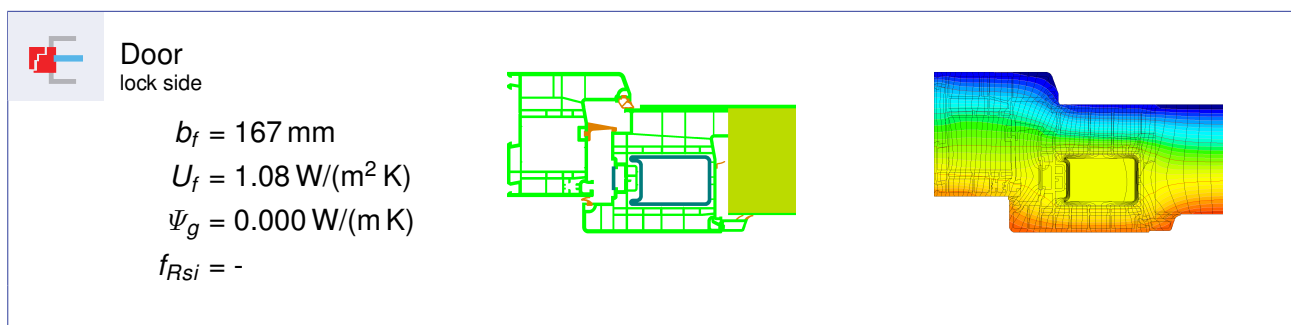
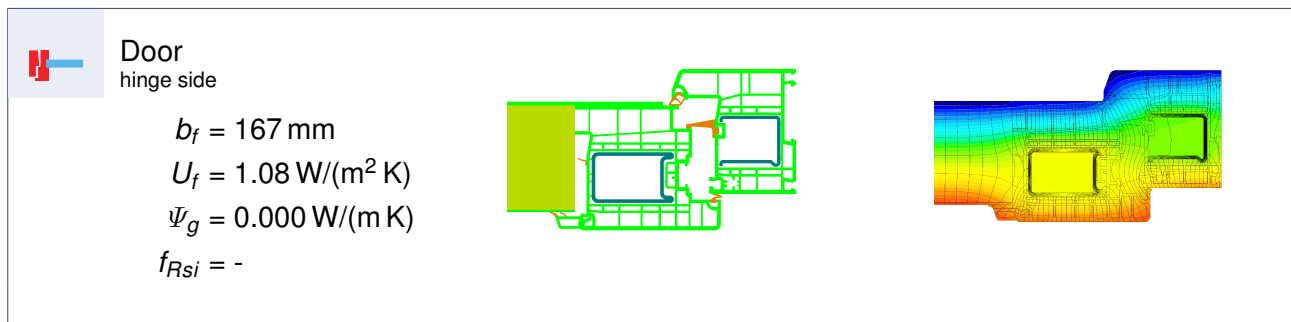
A detailed report of the calculations performed in the context of certification is available from the manufacturer.

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.

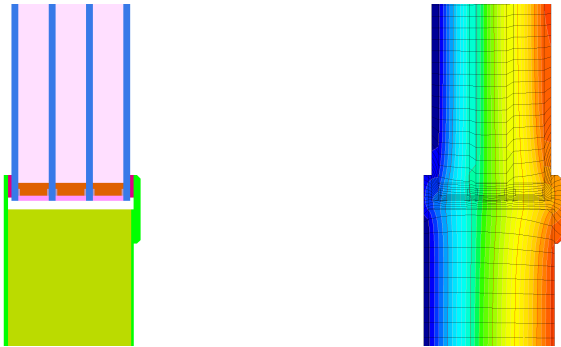
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense 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](http://www.passivehouse.com) and [passipedia.org](http://passipedia.org).

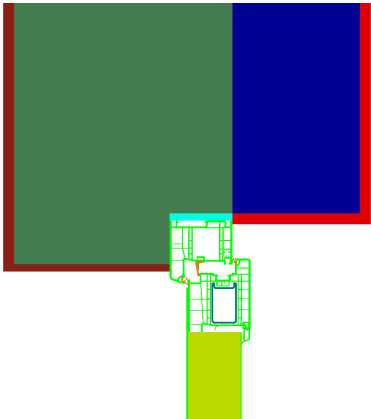
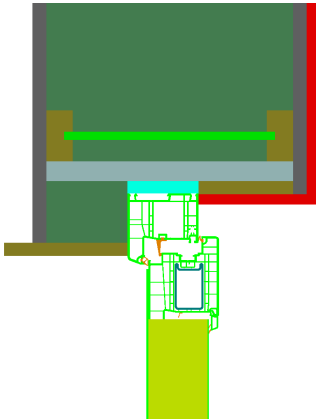
| Frame values    |   | Frame width<br>$b_f$<br>mm                   | U-value frame<br>$U_f$<br>W/(m <sup>2</sup> K) | $\Psi$ edge<br>$\Psi_g$<br>W/(m K) | Temp. Factor<br>$f_{Rsi=0.25}$<br>[-] |
|-----------------|---|--|--|------------------------------------|---------------------------------------|
| Door hinge side | (DJ1)  | 167  | 1.08   | 0.000                              | -                                     |
| Door lock side  | (DL1)  | 167  | 1.08   | 0.000                              | -                                     |
| Head            | (OH1)  | 167  | 1.08   | 0.000                              | -                                     |
| Threshold       | (OT2)  | 125  | 1.40   | 0.000                              | -                                     |
|                 |   | Spacer:                      Secondary seal: |  |                                    |                                       |

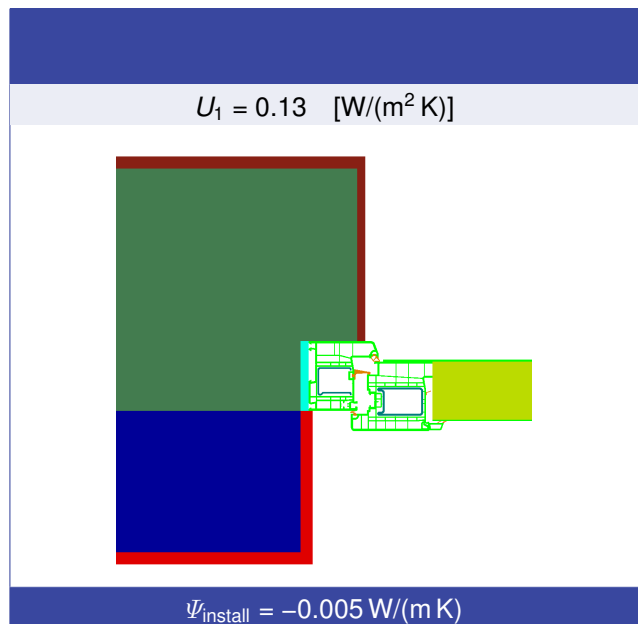
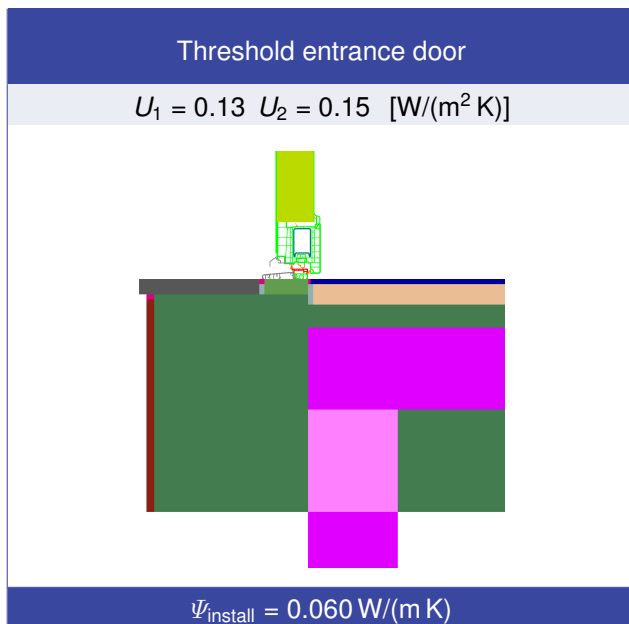


## Door with glas section/infill

| Glazing/Infill: 1   |   |
|---|---|
| $U_p = 0.50 \text{ W/(m}^2 \text{ K)}$<br>$\Psi = 0.040 \text{ W/(m K)}$<br>$f_{Rsi} = -$ |   |
| Description:  | <p>Glazing (pane structure: 4*/18Ar/4/18Lu/4/18Ar/*4) with <math>U_g = 0.50 \text{ W/(m}^2 \text{ K)}</math> according to EN 673; Spacer: "Super Spacer TriSeal"</p> <p>The comfort criterion limits the use of the infill element as follows:<br/> Maximum area= <math>0.90 \text{ m}^2</math><br/> Maximum circumference= <math>4.40 \text{ m}</math></p> |

## Validated installations

| Exterior insulation and finishing system (EIFS) (operable)                          | Lightweight timber (operable)  |
|---|--|
| $U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$  | $U_1 = 0.14 \text{ [W/(m}^2 \text{ K)]}$   |
|  |  |
| $\Psi_{\text{install}} = -0.005 \text{ W/(m K)}$                                    | $\Psi_{\text{install}} = -0.007 \text{ W/(m K)}$                                     |



Disclaimer: The Passive House Institute GmbH (PHI) conducts heat-transfer analyses in accordance with the standards set out in Criteria and Algorithms for Certified Passive House Components: Transparent Building Components and Opening Elements in the Building Envelope, based on information provided by the manufacturer. PHI does not verify on-site implementation. It is the responsibility of the project leader to ensure that installed components match the certified specifications in terms of geometry, configuration, and materials. Manufacturers must make full product information available upon request to parties involved in a construction project. These parties may compare the provided information with project documentation and perform on-site inspections as part of the quality-assurance process.

