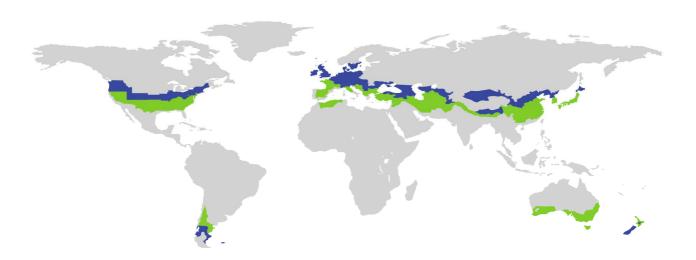
CERTIFICATE

Certified Passive House Component

ID: 0472cs03 valid until 31. December 2025

Passive House Institute
Dr. Wolfgang Feist
64342 Darmstadt
GERMANY



Catregory Construction system | Timber frame construction

Manufacturer STEICO SE

Feldkirchen Germany

Product name STEICO-Bausystem

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

Hygiene criterion

The minimum temperature factor of the interior surfaces is $f_{Rsi=0.25m^2K/W} \ge 0.70$

Comfort criterion

The U-value of the installed windows is $U_{W,i} \le 0.85 \text{ W/(m}^2\text{K)}$

Efficiency criteria

Heat transfer coefficient of building envelope U*f_{PHI} ≤ 0.15 W/(m²K)

Temperaturfactor of opaque junctions $f_{Rsi=0.25m^2K/W} \ge 0.86$

Thermal bridge free design for key connection details $\Psi \le 0.01 \text{ W/(m}^2\text{K)}$

An airtightness concept for all components and connection details was provided.



cool, temperate climate

www.passivehouse.com

STEICO SE

Otto-Lilienthal-Ring 30 85622 Feldkirchen Germany info@steico.com | www.steico.de

Determined values

| Thermal heat transfer coefficient | | Dimension [m] | U-value [W/(m²K)] |
|--|---------------------------------------|---|-------------------|
| EW1 | External wall | 0,396 | 0,118 |
| RO1 | Roof | 0,363 | 0,125 |
| BC1 | Basement ceiling | 0,471 | 0,109 |
| BW1 | Basement wall | 0,513 | 0,146 |
| Thermal bridge coefficient - opaque envelope | | Ψ [W/(mK)] | fRsi [-] |
| RO1_RO1 | Roof ridge | -0,027 | 0,95 |
| EW1_RO1_ea1 | Roof eaves | -0,018 | 0,93 |
| EW1_RO1_ve1 | Roof verge | -0,050 | 0,90 |
| EW1_EW1_ec1 | External wall – outer corner | -0,041 | 0,90 |
| EW1_EW1_ic1 | External wall – inverted corner | 0,039 | 0,96 |
| EW1_IW1 | External wall to internal wall | 0,004 | 0,96 |
| EW1_EW1_CE1 | External wall to ceiling | 0,010 | 0,94 |
| BC1_EW1_1 | Floor slab to external wall (unheat.) | -0,066 | 0,93 |
| BC1_IW1 | Floor slab to internal wall | 0,009 | 0,97 |
| BC1_EW1_2 | Floor slab to external wall (heated) | -0,024 | 0,94 |
| Thermal bridge coefficient – transparent connections | | Ψ [W/(mK)] | fRsi [-] |
| EW1_OH1 | Window connection - top | 0,008 | 0,84 |
| EW1_OJ1 | Window connection - side | 0,008 | 0,84 |
| EW1_OJ1_V1 | Window connection – side w. blind | 0,008 | 0,84 |
| EW1_OB1 | Window connection - bottom | 0,022 | 0,77 |
| EW1_OB1_V1 | Bottom connection w. blind | 0,022 | 0,77 |
| EW1_OH1_V1 | Window connection - top w. blind | 0,013 | 0,84 |
| BC1_OB1 | Balcony door threshold | 0,024 | 0,75 |
| Total U-value of the installed window | | [W/(m ² K)] (Criterion: < 0,85 W/(m ² K)) | |
| Installation 1 | | 0,84 | |
| Installation 2, with blind | | 0,84 | |
| Installation 3, considering balcony door threshold | | 0,84 | |