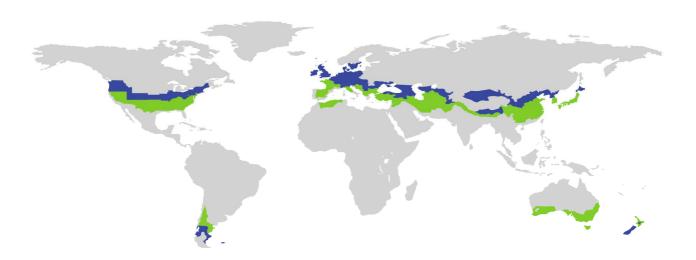
CERTIFICATE

Certified Passive House Component

ID: 0472cs03 valid until 31. December 2023

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 $\Psi \leq 0.01 \text{ W/(m}^2\text{K)}$

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



cool, temperate climate

www.passivehouse.com

STEICO SE

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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	