

# CERTIFICATE

Certified Passive House Component

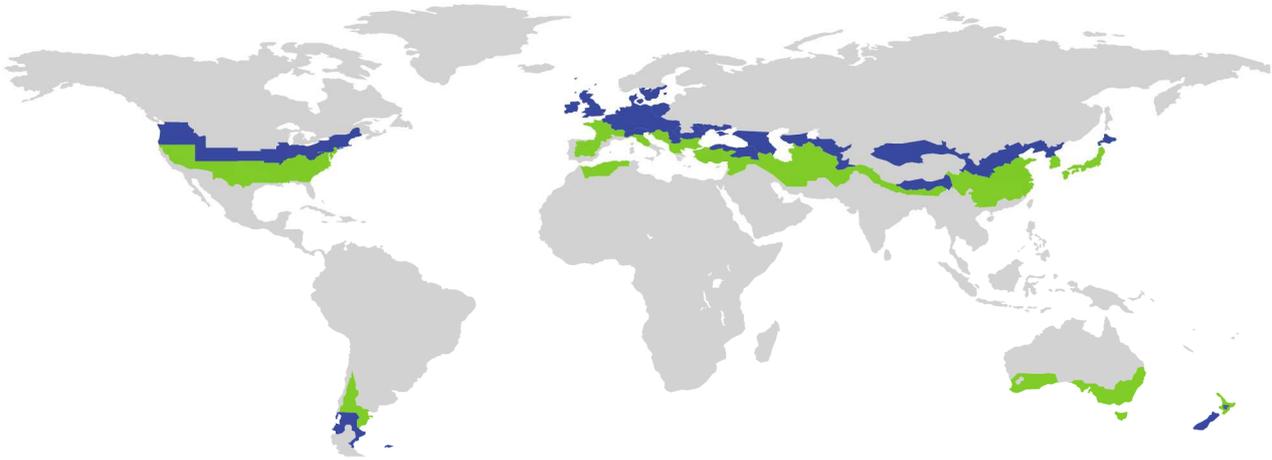
ID: 0472cs03 valid until 31. December 2019

Passive House Institute

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Category	<b>Construction system   Timber frame construction</b>
Manufacturer	<b>STEICO SE Feldkirchen Germany</b>
Product name	<b>STEICO-Bausystem</b>

**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

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

## Comfort criterion

The U-value of the installed windows is

$$U_{w,i} \leq 0.85 \text{ W}/(m^2K)$$

## Efficiency criteria

Heat transfer coefficient of building envelope

$$U \cdot f_{PHI} \leq 0.15 \text{ W}/(m^2K)$$

Temperaturfactor of opaque junctions

$$f_{R_{si}=0,25m^2K/W} \geq 0.86$$

Thermal bridge free design for key connection details

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

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



cool, temperate climate

[www.passivehouse.com](http://www.passivehouse.com)

## STEICO SE

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## Determined values

### Thermal heat transfer coefficient

	Dimension [m]	U-Wert [W/(m <sup>2</sup> K)]
EW01 - External Wall	0.37	0.118
RO01 - Roof	0.37	0.125
BC01 - Basement Ceiling	0.45	0.115
BW01 - Basement Wall	0.51	0.146

### Thermal bridge coefficient opaque envelop

	fRsi [-]	Ψ [W/(mK)]
RORI01 - Roof Ridge	0.95	-0.027
ROEA01 - Roof Eaves	0.92	-0.046
EWEC01 - External Wall Outer Corner	0.94	-0.065
EWIC01 - External Wall Inner Corner	0.98	0.037
EWIW01 - External Wall Internal Wall	0.96	0.000
EWCE01 - External Wall internal CEiling	0.98	0.000
FSEW01 - Floor Slab External Wall	0.86	-0.056
FSIW01 - Floor Slab Internal Wall	0.98	-0.003