

CERTIFICATE

Certified Passive House Component

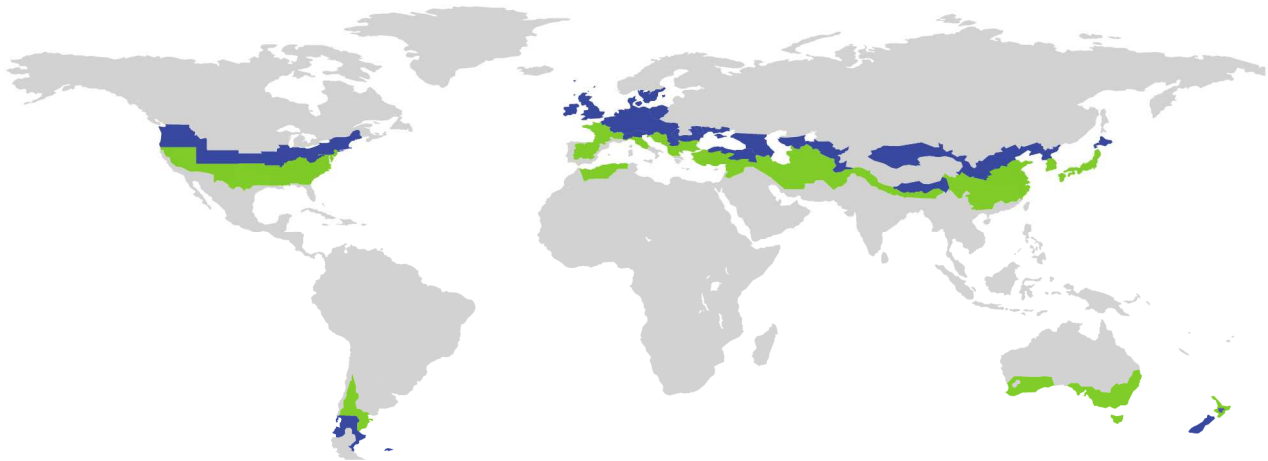
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Passive House Institute

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Category	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

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

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

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Determined values

Thermal heat transfer coefficient

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

RORI01 - Roof Ridge

fRsi [-]

0.95

Ψ [W/(mK)]

-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