

CERTIFICATE

Certified Passive House Component

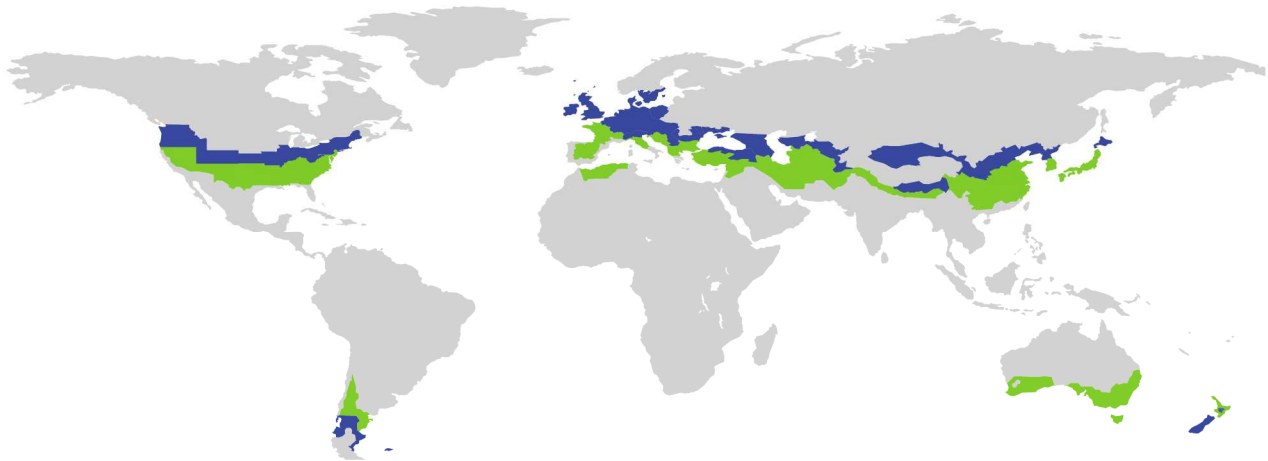
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Passive House Institute

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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

STEICO SE

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Determined values

Thermal heat transfer coefficient

| | Dimension [m] | U-Wert [W/(m ² 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 |