

CERTIFICATE

Certified Passive House Component

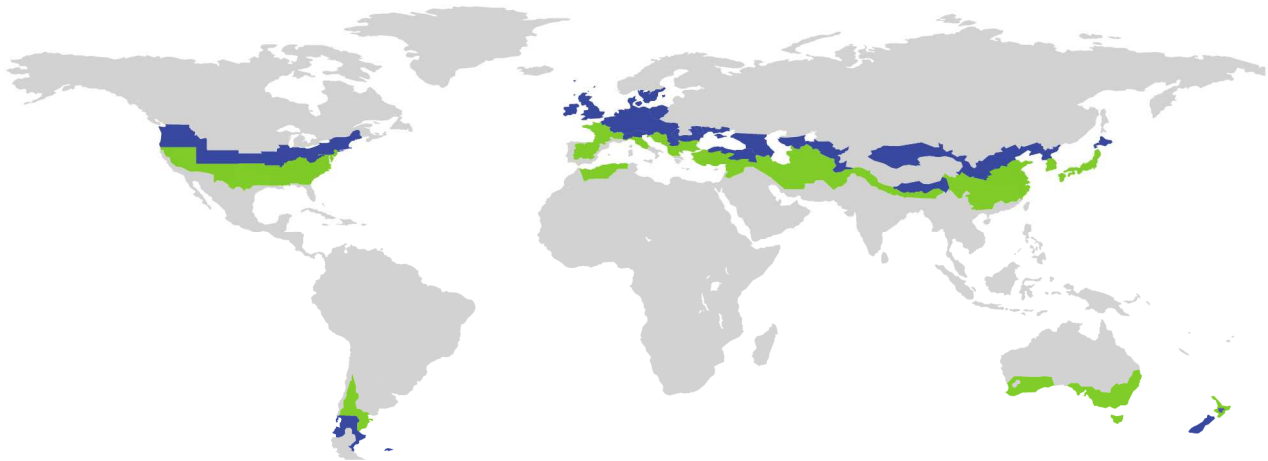
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Passive House Institute

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Category **Construction system | Timber frame construction**
Manufacturer **ECOCOR High Performance Buildings**
Searsmont
UNITED STATES OF AMERICA

Product name **ECOCOR Passiv**

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

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Determined values

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m ² K)]
EW01 - External Wall	0.04	0.108
RO01 - Roof	0.69	0.065
FS01 - Floor Slab	0.53	0.118

Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
FSEW01 - Floor Slab External Wall	0.93	-0.057
EWCE01 - External Wall internal CEiling	0.98	0.021
EWPA01 - External Wall PArty wall	0.97	0.006
EWIW01 - External Wall Internal Wall	0.97	0.004
EWCE01 - External Wall internal CEiling	0.98	0.002
BCEW01 - Basement Ceiling External Wall	0.33	0.007
EWHB01 - External Wall Heated Basement Ceiling	0.91	-0.023
EWHB02 - External Wall Heated Basement Ceiling	0.93	-0.043
EWHB03 - External Wall Heated Basement Ceiling	0.93	-0.052
FSFE01 - Floor Slab Strip Foundation External Wall	0.33	0.008
BCPA01 - Basement Ceiling PArty wall	0.96	0.160
BCIW01 - Basement Ceiling Internal Wall	0.96	0.087
ROVE01 - Roof Verge	0.94	-0.044
ROEA01 - Roof Eaves	0.95	-0.027
ROEA02 - Roof Eaves	0.95	-0.040