

CERTIFICATE

Certified Passive House Component

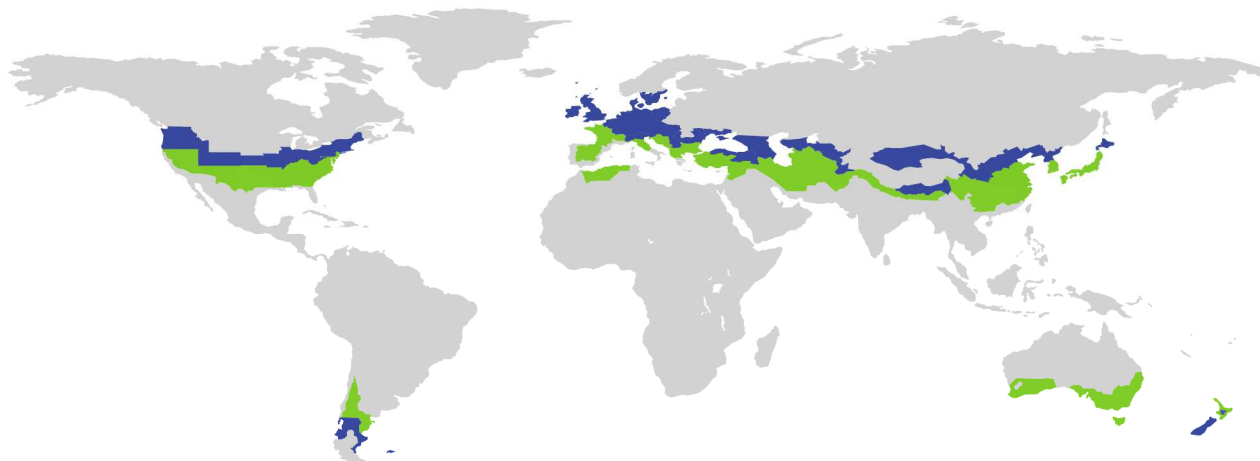
ID: 0336cs03 valid until 31. December 2026

Passive House Institute

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Category	Construction system Timber frame construction
Manufacturer	Rihter d.o.o Ljubno ob Savinji SLOVENIA
Product name	Rihter Pasiv

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

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

Comfort criterion

The U-value of the installed windows is

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

Efficiency criteria

Heat transfer coefficient of building envelope

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

Temperaturfactor of opaque junctions

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

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



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COMPONENT**

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Determined values

Thermal heat transfer coefficient

		Dimension [m]	U-Wert [W/(m²K)]
RO01	- Roof	0.48	0.106
EW01	- External wall	0.47	0.093
FS01	- Floor slab	0.66	0.131
BC01	- Basement ceiling	0.44	0.208

Thermal bridge coefficient opaque envelope

		fRsi [-]	Ψ [W/(mK)]
RORI01	- Roof ridge	0.90	-0.029
MRRI01	- Monopitched roof ridge	0.94	-0.053
EWIW01	- External wall internal wall	0.97	0.010
EWCE01	- External wall internal ceiling	0.96	0.010
FSEW01	- Floor slab external wall	0.95	-0.033
FSEW02	- Floor slab external wall	0.95	-0.035
FSEW03	- Floor slab external wall	0.98	0.004
FSEW04	- Floor slab external wall	0.99	0.003
EWHB01	- External wall heated basement ceiling	0.96	0.001
BCEW01	- Basement ceiling external wall	0.92	0.034
ROEA01	- Roof eaves	0.96	-0.036
ROVE01	- Roof verge	0.94	-0.065
RORI01	- Roof ridge	0.96	-0.059