

CERTIFICATE

Certified Passive House Component

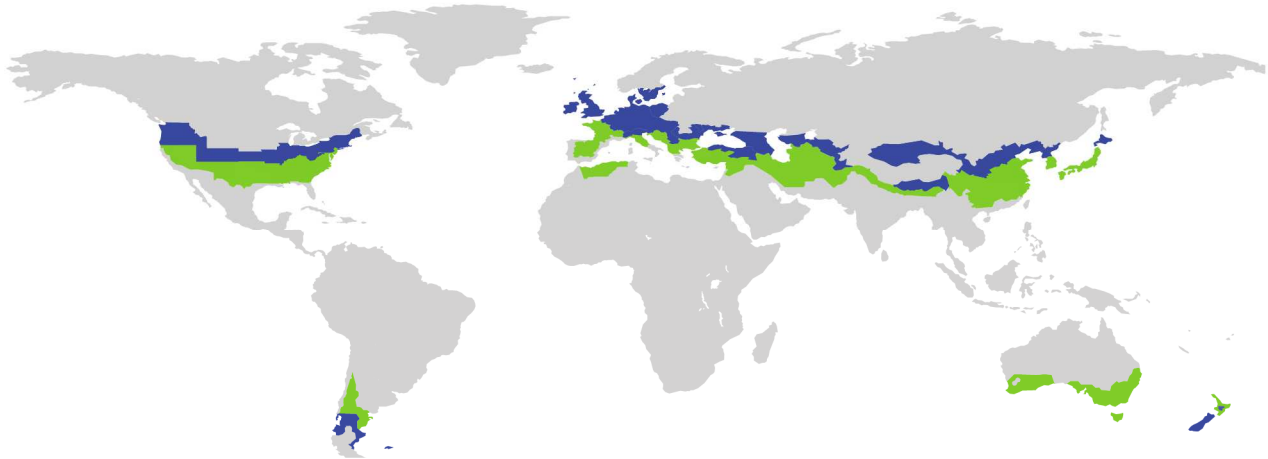
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Passive House Institute

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Category	Construction system Lightweight construction
Manufacturer	LUMAR IG d.o.o. Maribor SLOVENIA
Product name	LUMAR PASIV Energy

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

www.passivehouse.com

LUMAR IG d.o.o.

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Determined values

Thermal heat transfer coefficient

	Dimension [m]	U-Wert [W/(m²K)]
EW01 - External Wall	0.41	0.120
RO01 - Roof	0.43	0.108
MR01 - Monopitched Roof	0.43	0.108
CC01 - Collar Ceiling	0.47	0.103
BC01 - Basement Ceiling	0.54	0.148
BW01 - Basement Wall	0.55	0.146
FS01 - Floor Slab	0.53	0.143

Thermal bridge coefficient opaque envelop

	fRsi [-]	Ψ [W/(mK)]
CCEA01 - Collarbeam Ceiling Eaves	0.96	-0.042