

CERTIFICATE

Certified Passive House Component

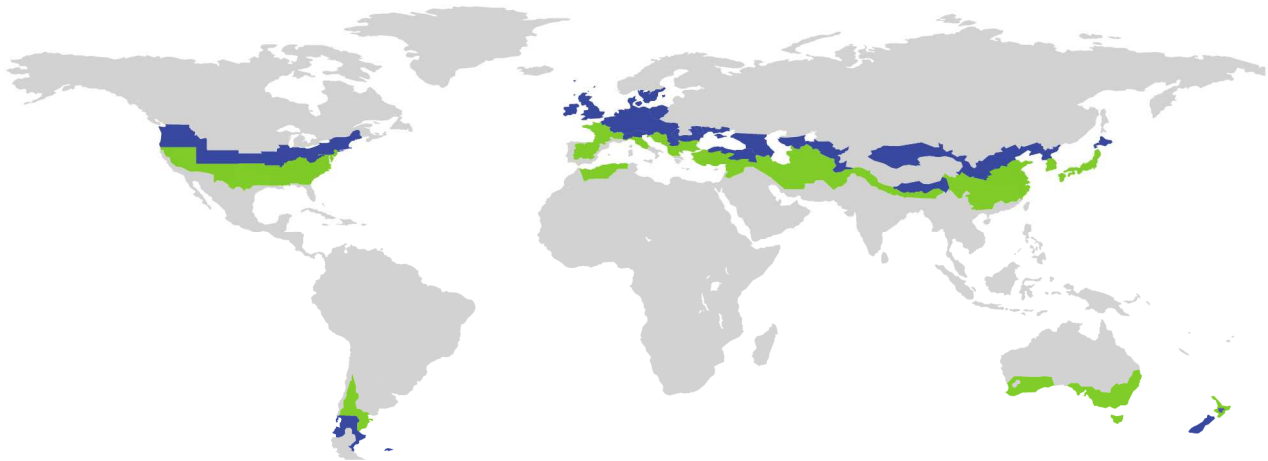
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Passive House Institute

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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

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

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

LUMAR IG d.o.o.

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Determined values

Thermal heat transfer coefficient

EW01 - External Wall

RO01 - Roof

MR01 - Monopitched Roof

CC01 - Collar Ceiling

BC01 - Basement Ceiling

BW01 - Basement Wall

FS01 - Floor Slab

Dimension [m]

0.41

0.43

0.43

0.47

0.54

0.55

0.53

U-Wert [W/(m²K)]

0.120

0.108

0.108

0.103

0.148

0.146

0.143

Thermal bridge coefficient opaque envelop

CCEA01 - Collarbeam Ceiling Eaves

fRsi [-]

0.96

Ψ [W/(mK)]

-0.042