

CERTIFICATE

Certified Passive House Component

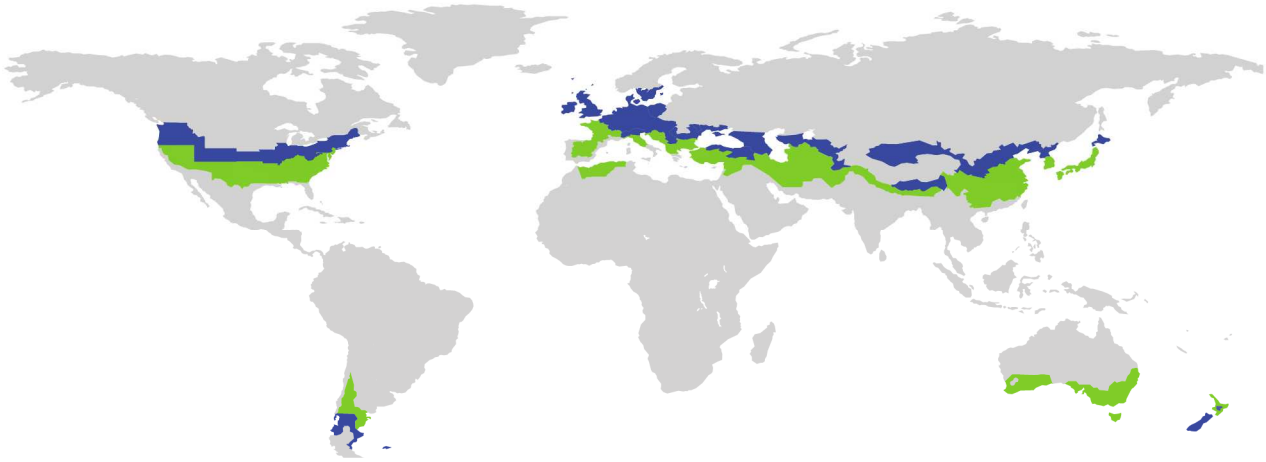
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Passive House Institute

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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

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