

# CERTIFICATE

Certified Passive House Component

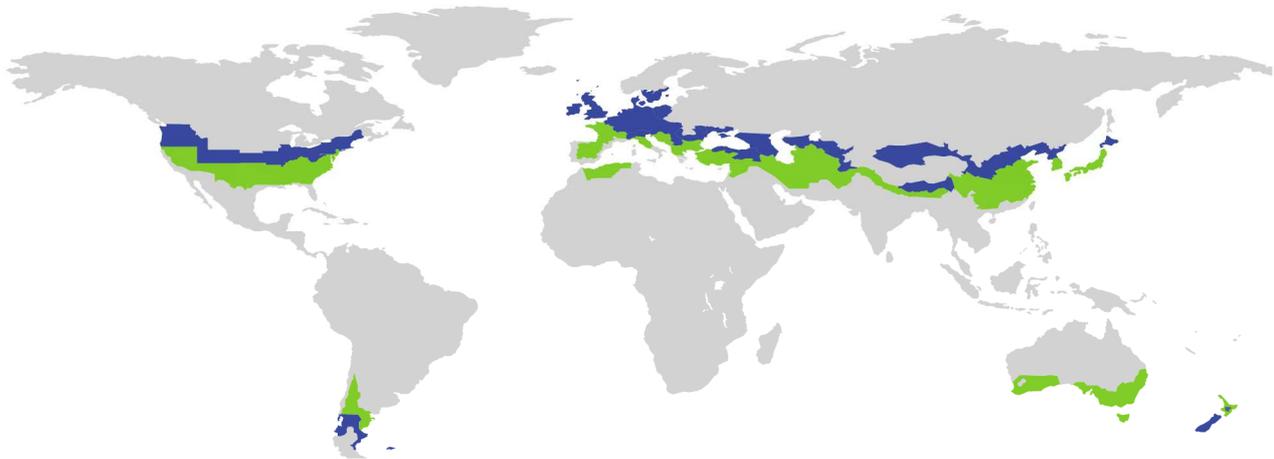
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Passive House Institute

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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](http://www.passivehouse.com)

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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/(m<sup>2</sup>K)]

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