

CERTIFICATE

Certified Passive House Component

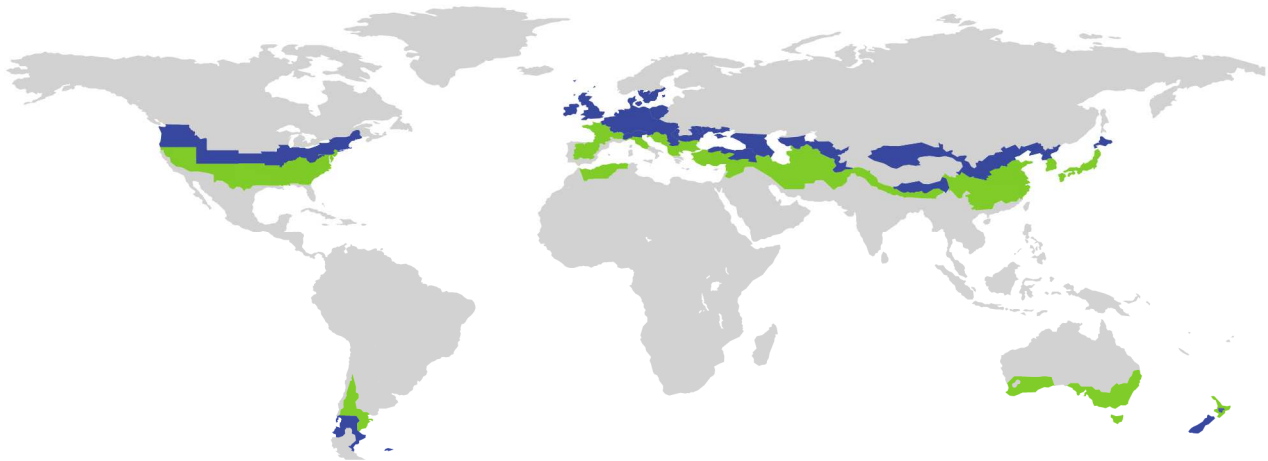
ID: 0588ws03 valid until 31. December 2018

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



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COMPONENT**

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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