

CERTIFICATE

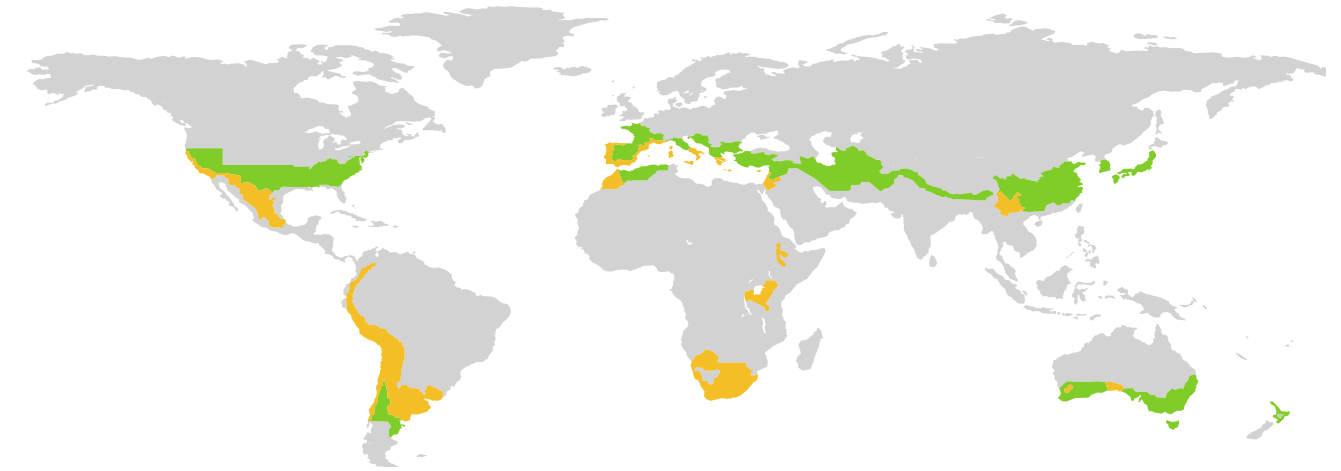
Certified Passive House Component

ID: 1236cs04 valid until 31. December 2025

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Additional thermal bridges

Name	Thermal bridge	f_{Rsi}	Description
Steel bracket	X= 0,025 W/K	0,88	Facade mounting bracket



Category	Construction system Steel construction
Manufacturer	Knauf Insulation S. L. Sant Boi de Llobregat SPAIN
Product name	Passivhaus External Wall System

This certificate for the warm, temperate climate zone was awarded based on the following criteria

Hygiene criterion

The minimum temperature factor of the interior surfaces is $f_{Rsi=0,25m^2K/W} \geq 0,65$

Comfort criterion

The U-value of the installed windows is $U_{W,i} \leq 1,05 \text{ W}/(\text{m}^2\text{K})$

Efficiency criteria

Heat transfer coefficient of building envelope $U \cdot f_{PHI} \leq 0,25 \text{ W}/(\text{m}^2\text{K})$

Temperature factor of opaque junctions $f_{Rsi=0,25m^2K/W} \geq 0,82$

Thermal bridge-free design for key connection details $\Psi \leq 0,01 \text{ W}/(\text{m}^2\text{K})$

An airtightness concept for all components and connection details was provided

warm, temperate climate



**CERTIFIED
COMPONENT**

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