

# CERTIFICATE

Certified Passive House Component

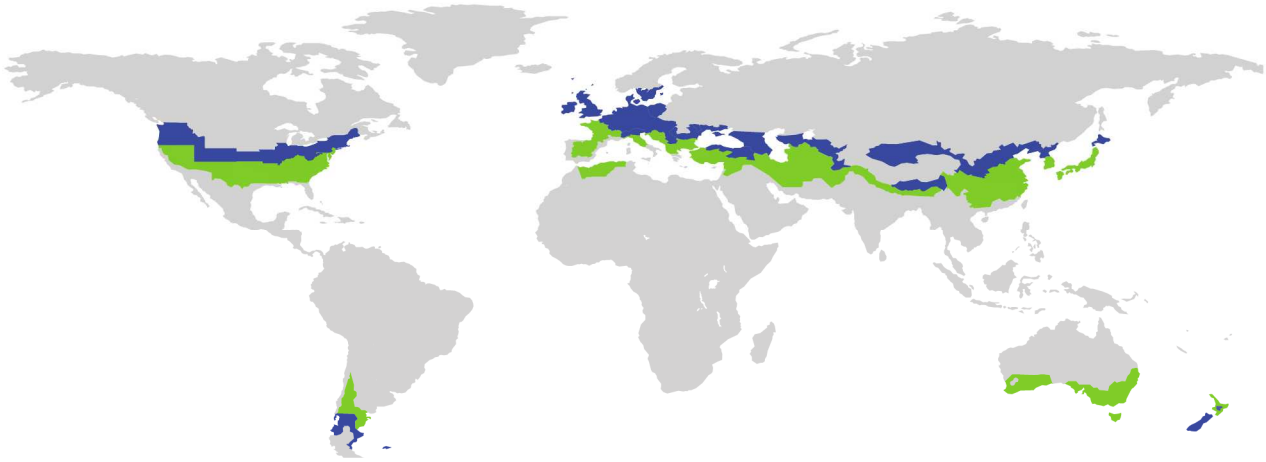
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Passive House Institute

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Category	<b>Construction system   Lightweight construction</b>
Manufacturer	<b>Saint-Gobain Paris-La Défense FRANCE</b>
Product name	<b>ISOVER Holzbausystem für Passivhäuser (mit WDVS)</b>

**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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## Determined values

<b>Thermal heat transfer coefficient</b>	<b>Dimension [m]</b>	<b>U-Wert [W/(m<sup>2</sup>K)]</b>
EW01 - External Wall	0.39	0.115
MR01 - Monopitched Roof	0.37	0.110
MR02 - Monopitched Roof	0.37	0.116
RO01 - Roof	0.35	0.126
RO02 - Roof	0.38	0.105
RO03 - Roof	0.34	0.118
FR01 - Flat Roof	0.40	0.106
FR02 - Flat Roof	0.37	0.104
FR03 - Flat Roof	0.37	0.115
FS01 - Floor Slab	0.72	0.101
BC01 - Basement Ceiling	0.40	0.159
BW01 - Basement Wall	0.39	0.196
TC01 - Top Ceiling	1.45	0.094
<b>Thermal bridge coefficient opaque envelop</b>	<b>fRsi [-]</b>	<b>Ψ [W/(mK)]</b>
FSFE01 - Floor Slab Strip Foundation External Wall	0.93	-0.066
BCEW01 - Basement Ceiling External Wall	0.89	-0.026
BCEW01 - Basement Ceiling External Wall	0.90	-0.043
EWIC01 - External Wall Inner Corner	0.98	0.016
EWEC01 - External Wall Outer Corner	0.93	-0.039
EWIW01 - External Wall Internal Wall	0.97	0.000
EWCE01 - External Wall internal CEiling	0.97	0.001
ROEA01 - Roof Eaves	0.94	-0.019
ROVE01 - Roof Verge	0.90	-0.005
FRRP01 - Flat Roof Roof Parapet	0.93	-0.004