

CERTIFICATE

Certified Passive House Component

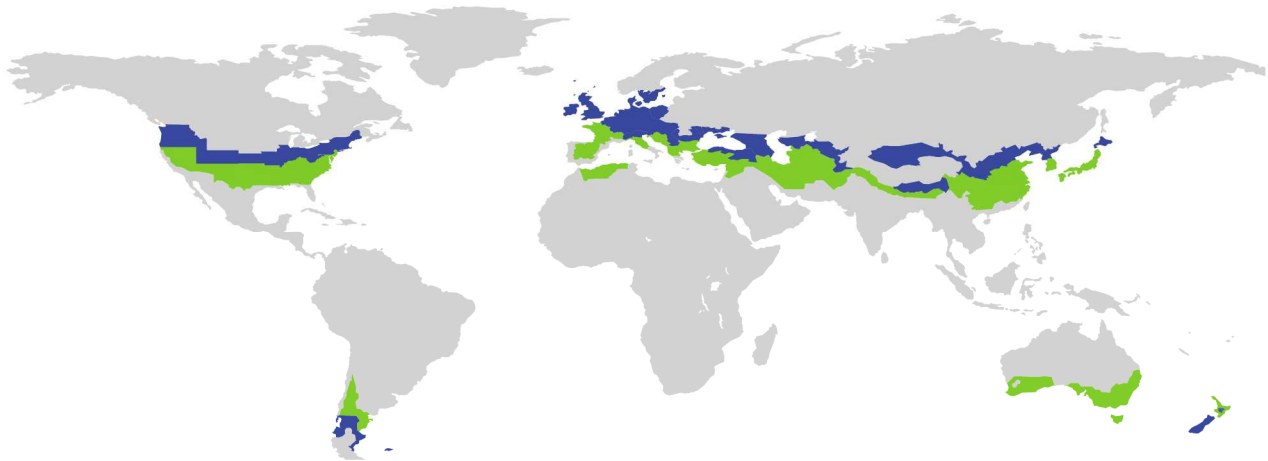
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Passive House Institute

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Category	Construction system Lightweight construction
Manufacturer	Saint-Gobain ISOVER COURBEVOIE FRANCE
Product name	ISOVER Holzbausystem für Passivhäuser (mit hinterlüfteter Fassade)

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

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m ² K)]
EW01 - External Wall	0.40	0.115
MR01 - Monopitched Roof	0.35	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	0.45	0.102
Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
FSFE01 - Floor Slab Strip Foundation External Wall	0.92	-0.058
BCEW01 - Basement Ceiling External Wall	0.89	0.031
EWHB01 - External Wall Heated Basement Ceiling	0.96	-0.003
EWCE01 - External Wall internal CEiling	0.97	-0.009
EWEO01 - External Wall External Overhang	0.91	-0.059
EWIO01 - External Wall Internal Overhang	0.97	0.027
EWEC01 - External Wall Outer Corner	0.93	-0.074
EWIC01 - External Wall Inner Corner	0.97	0.012
EWIW01 - External Wall Internal Wall	0.97	-0.011
ROEA01 - Roof Eaves	0.95	-0.029
ROVE01 - Roof Verge	0.91	-0.034
ROFI01 - Roof Firewall	0.95	-0.045
ROEA02 - Roof Eaves	0.94	-0.039
ROVE02 - Roof Verge	0.92	-0.036
ROEA03 - Roof Eaves	0.94	-0.040
ROVE03 - Roof Verge	0.91	-0.033
ROEA04 - Roof Eaves	0.95	-0.028
ROVE04 - Roof Verge	0.93	-0.047
ROFI04 - Roof Firewall	0.94	-0.035
ROEA05 - Roof Eaves	0.95	-0.028
ROVE05 - Roof Verge	0.91	-0.033
ROFI05 - Roof Firewall	0.93	-0.029
ROEA06 - Roof Eaves	0.94	-0.062
ROEA07 - Roof Eaves	0.94	-0.052
ROEA08 - Roof Eaves	0.94	-0.057
ROPA01 - Roof Parapet	0.96	0.011
ROPA02 - Roof Parapet	0.96	0.077
ROPA03 - Roof Parapet	0.96	0.001
ROPA04 - Roof Parapet	0.96	0.010