

CERTIFICATE

Certified Passive House Component

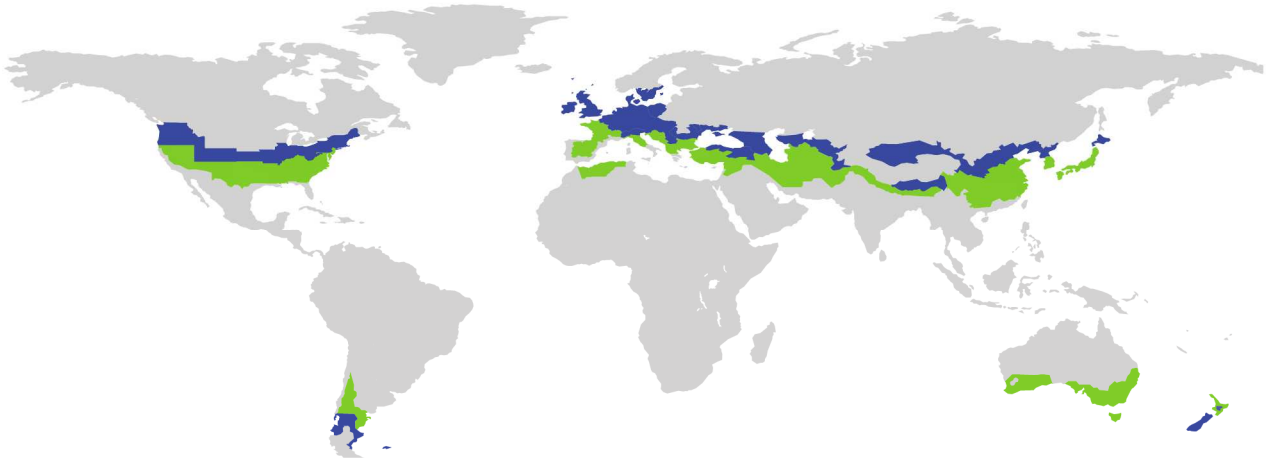
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Passive House Institute

Dr. Wolfgang Feist

64342 Darmstadt

GERMANY



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

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

$$f_{Rsi=0,25m^2K/W} \geq 0.70$$

Comfort criterion

The U-value of the installed windows is

$$U_{w,i} \leq 0.85 \text{ W/(m}^2\text{K)}$$

Efficiency criteria

Heat transfer coefficient of building envelope

$$U \cdot f_{PHI} \leq 0.15 \text{ W/(m}^2\text{K)}$$

Temperaturfactor of opaque junctions

$$f_{Rsi=0,25m^2K/W} \geq 0.86$$

Thermal bridge free design for key connection details

$$\Psi \leq 0.01 \text{ W/(m}^2\text{K)}$$

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/(m²K)]
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
Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
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