

CERTIFICATE

Certified Passive House Component

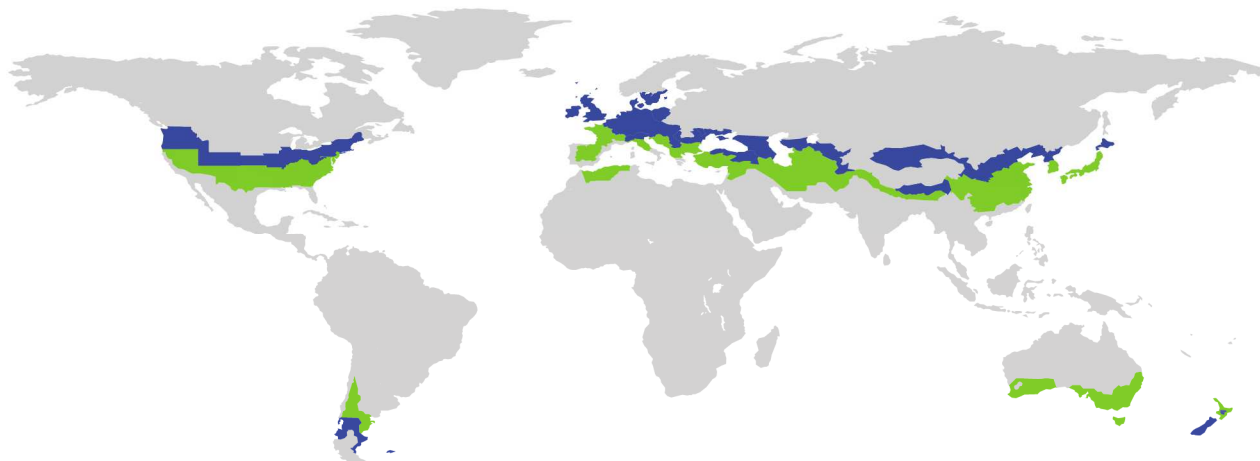
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Passive House Institute

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Category
Manufacturer

Construction system | Solid construction

Saint-Gobain ISOVER

COURBEVOIE

FRANCE

Product name

ISOVER Massivbausystem 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

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

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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COMPONENT**

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Determined values

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m²K)]
EW01 - External Wall	0.51	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	0.117
FR01 - Flat Roof	0.61	0.108
FR02 - Flat Roof	0.53	0.109
FR03 - Flat Roof	0.57	0.118
FS01 - Floor Slab	0.72	0.103
BC01 - Basement Ceiling	0.40	0.159
BW01 - Basement Wall	0.42	0.168
TC01 - Top Ceiling	0.60	0.095
Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
FSFE01 - Floor Slab Strip Foundation External Wall	0.90	-0.056
BCEW01 - Basement Ceiling External Wall	0.98	0.020
EWIW01 - External Wall Internal Wall	0.97	-0.001
EWCE01 - External Wall internal CEiling	0.97	0.009
EWCE02 - External Wall internal CEiling	0.96	0.012
FSEW01 - Floor Slab External Wall	0.98	-0.042
BCIW01 - Basement Ceiling Internal Wall	0.97	0.009
BCEW01 - Basement Ceiling External Wall	0.97	-0.045
EWHB01 - External Wall Heated Basement Ceiling	0.96	0.002
EWHB02 - External Wall Heated Basement Ceiling	0.91	-0.019
ROEA01 - Roof Eaves	0.96	-0.012
RORI01 - Roof Ridge	0.94	-0.042
ROVE01 - Roof Verge	0.93	-0.039