

CERTIFICATE

Certified Passive House Component

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Passive House Institute

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Category	Construction system Solid construction
Manufacturer	Saint-Gobain Paris-La Défense FRANCE
Product name	ISOVER Massivbausystem 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

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

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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COMPONENT**

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Determined values

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m ² K)]
EW01 - External Wall	0.55	0.112
MR01 - Monopitched Roof	0.37	0.110
MR02 - Monopitched Roof	0.37	0.116
RO01 - Roof	0.13	0.126
RO02 - Roof	0.38	0.105
RO03 - Roof	0.12	0.117
FR01 - Flat Roof	0.11	0.109
FR02 - Flat Roof	0.11	0.109
FR03 - Flat Roof	0.12	0.118
FS01 - Floor Slab	0.10	0.101
BC01 - Basement Ceiling	0.40	0.159
BW01 - Basement Wall	0.42	0.168
TC01 - Top Ceiling	0.60	0.082
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	0.92	0.001
BCEW01 - Basement Ceiling External Wall	0.93	-0.002
BCEW02 - Basement Ceiling External Wall	0.93	-0.007
EWHB01 - External Wall Heated Basement Ceiling	0.98	0.004
EWEC01 - External Wall Outer Corner	0.96	-0.054
EWEC02 - External Wall Outer Corner	0.96	-0.062
EWIC01 - External Wall Inner Corner	0.99	0.019
EWIC02 - External Wall Inner Corner	0.98	0.022
EWIW01 - External Wall Internal Wall	0.99	0.000
EWIW02 - External Wall Internal Wall	0.98	0.000
EWCE01 - External Wall internal CEiling	0.98	0.000
EWCE02 - External Wall internal CEiling	0.98	0.000
FRRP01 - Flat Roof Roof Parapet	0.96	-0.030
FRRP02 - Flat Roof Roof Parapet	0.96	-0.033
ROEA - - Roof Eaves	0.96	0.008
ROEA - - Roof Eaves	0.96	0.009
ROVE01 - Roof Verge	0.93	-0.024
ROVE02 - Roof Verge	0.93	-0.028