

CERTIFICATE

Certified Passive House Component

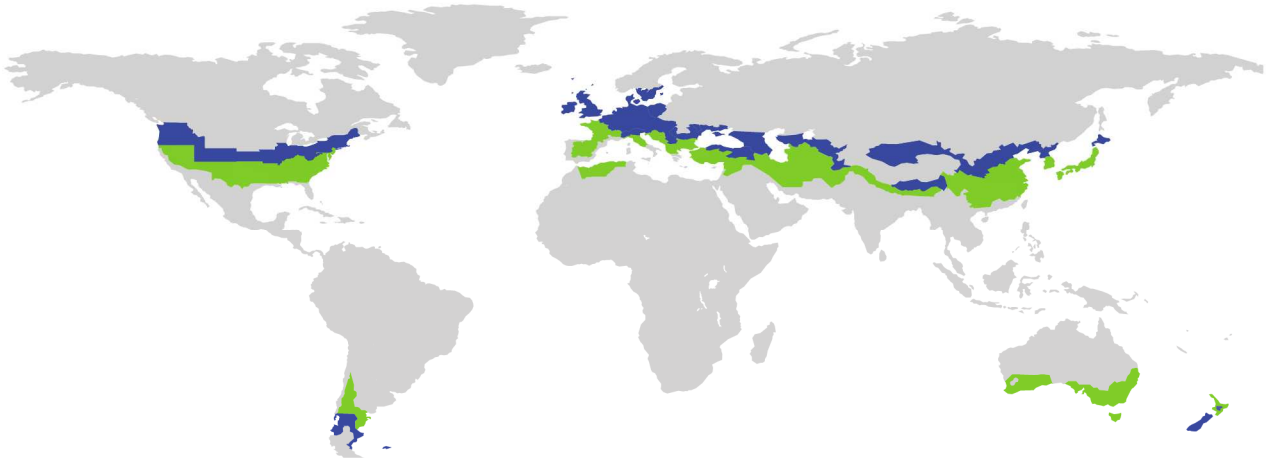
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Passive House Institute

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Category	Construction system Solid construction
Manufacturer	Carlson Investments SE Warszawa POLAND
Product name	HOTBLOK Bausystem für Passivhäuser

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

www.passivehouse.com

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Determined values

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m²K)]
EW01 - External Wall	0.44	0.136
FR01 - Flat Roof	0.67	0.110
RO01 - Roof	0.41	0.110
BC01 - Basement Ceiling	0.52	0.149
BW01 - Basement Wall	0.45	0.187
FS01 - Floor Slab	0.42	0.151
Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
EWHB01 - External Wall Heated Basement Ceiling	0.96	0.006
BCIW01 - Basement Ceiling Internal Wall	0.93	-0.010
BCEW02 - Basement Ceiling External Wall	0.92	0.019
EWHB01 - External Wall Heated Basement Ceiling	0.94	0.004
EWCE01 - External Wall internal CEiling	0.95	0.004
EWEO01 - External Wall External Overhang	0.91	-0.052
EWIO01 - External Wall Internal Overhang	0.97	0.023
EWEC01 - External Wall Outer Corner	0.92	-0.064
EWIC01 - External Wall Inner Corner	0.97	0.021
EWIW01 - External Wall Internal Wall	0.96	0.001
ROEA01 - Roof Eaves	0.94	-0.021
ROVE01 - Roof Verge	0.91	-0.050
ROFI01 - Roof Firewall	0.93	-0.039
ROEA02 - Roof Eaves	0.93	-0.024
ROVE02 - Roof Verge	0.91	-0.050
ROEA03 - Roof Eaves	0.93	-0.026
ROVE03 - Roof Verge	0.92	-0.032
ROEA04 - Roof Eaves	0.95	-0.019
ROVE04 - Roof Verge	0.91	-0.050
ROFI04 - Roof Firewall	0.94	-0.035
ROEA05 - Roof Eaves	0.94	-0.017
ROVE05 - Roof Verge	0.90	-0.052
ROFI05 - Roof Firewall	0.91	-0.042
ROEA06 - Roof Eaves	0.91	-0.061
FRRP01 - Flat Roof Roof Parapet	0.91	-0.050
ROEA07 - Roof Eaves	0.91	-0.056
FRRP02 - Flat Roof Roof Parapet	0.91	-0.051
ROEA08 - Roof Eaves	0.91	-0.058
FRRP03 - Flat Roof Roof Parapet	0.90	-0.048
ROPA01 - Roof Parapet	0.94	0.007
BCPA01 - Basement Ceiling PArty wall	0.97	0.067
BCPA02 - Basement Ceiling PArty wall	0.97	0.091
FSPA01 - Floor Slab PArty wall	0.98	0.000