

CERTIFICATE

Certified Passive House Component

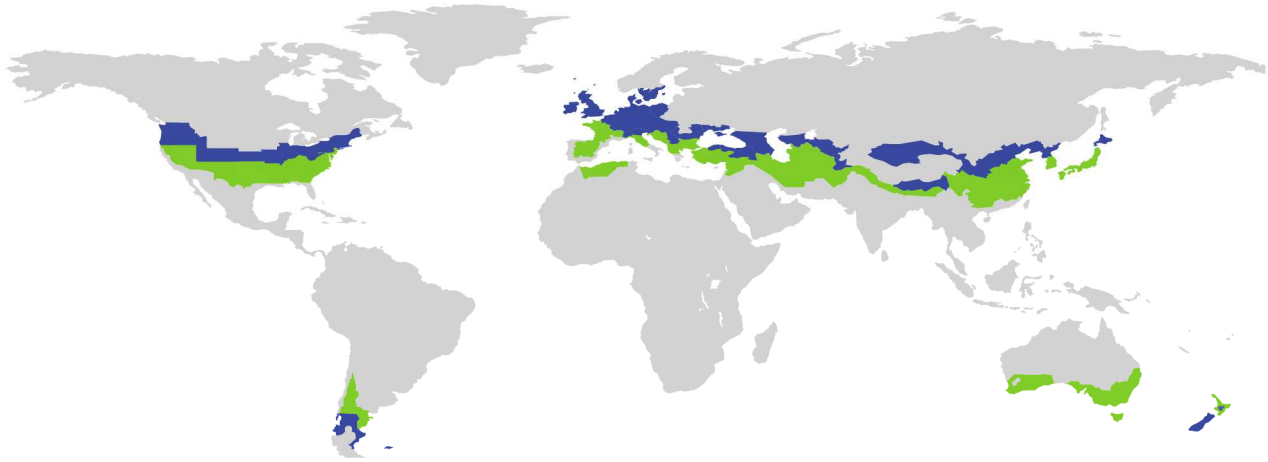
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Passivhaus Institut

Dr. Wolfgang Feist

64342 Darmstadt

Germany



Category	Construction System Solid Construction
Manufacturer	DAW SE, division alsecco Wildeck GERMANY
Product name	alsecco Passivhaussystem

This certificate for cool temperate climate 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-values of the installed windows is

$$U_{W,i} \leq 0,85 \text{ W}/(m^2K)$$

Efficiency criteria

The U-value of the opaque building envelope is

$$U \cdot f_{PHI} \leq 0,15 \text{ W}/(m^2K)$$

Temperature factor opaque connections

$$f_{R_{si}=0,25m^2K/W} \geq 0,86$$

Thermal bridge free design of critical connections

$$\Psi \leq 0,01 \text{ W}/(mK)$$

An air tightness concept for all components and connections has been proven



cool, temperate climate

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Calculated values

Heat transfer coefficients	Element thickness [m]	U-value [W/(m ² K)]
EW01 – External wall	0,50	0,102
EW02 – External wall	0,50	0,109
EW03 – External wall	0,50	0,112
EW04 – External wall	0,50	0,127
EW05 – External wall	0,50	0,130
FR01 – Flat roof	0,52	0,129
RO01 – Roof	0,40	0,136
BC01 – Basement ceiling	0,47	0,171
FS01 – Floor slab	0,62	0,131

Ψ -values opaque connections	fRsi [-]	Ψ [W/(mK)]
FSEW01 (floor slab – external wall)	0,96	-0,04
FSEW02 (floor slab – external wall)	0,98	-0,001
FSEW03 (floor slab – external wall)	0,98	-0,016
EWEC01 (ext. wall – ext. corner)	0,96	-0,063
EWIC01 (ext. wall – int. corner)	0,99	0,024
EWIW01 (ext. wall – int. wall)	0,99	0,00
EWCE01 (ext. wall – ceiling)	0,96	0,001
FRRP01 (flat roof – parapet)	0,94	-0,007
ROVE01 (ext. wall – roof, verge)	0,98	-0,051
ROEA01 (ext. wall – roof, eaves)	0,97	-0,042
WIBO01 (window inst., bottom)	0,84	0,05
WISI01 (window inst., side)	0,84	0,015
WITO01 (window inst., top)	0,84	0,014
WITH01 (window inst., threshold)	0,84	0,021