

CERTIFICATE

Certified Passive House Component

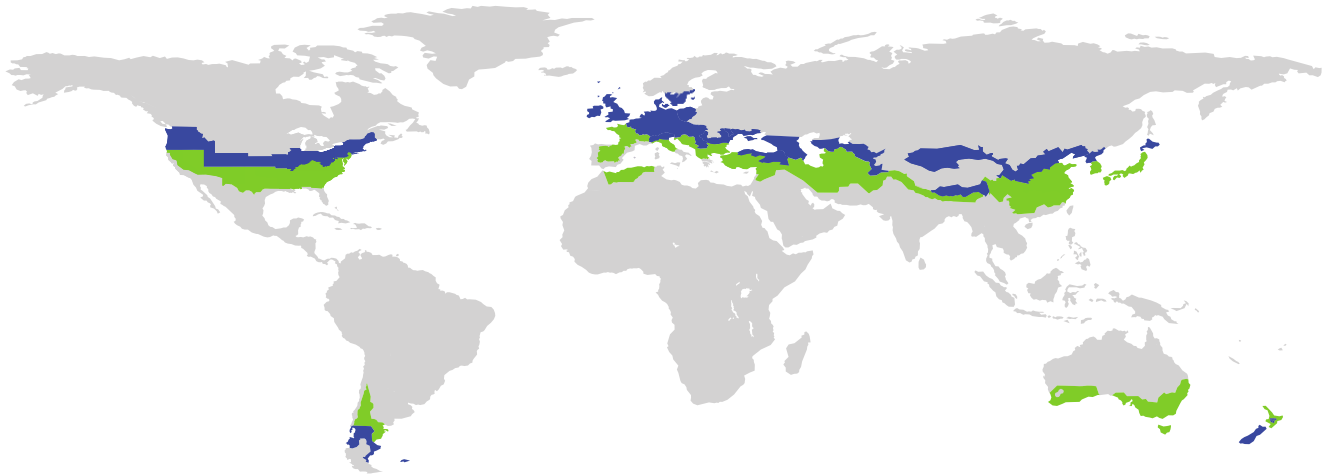
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Passive House Institute

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Category	Construction system Solid construction
Manufacturer	Euromac 2 S.A.S Folschviller FRANCE
Product name	Euromac 2 Passiv-Detailset

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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Determined values

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m²K)]
EW01 - External Wall	0,48	0,136
RO02 - Roof	0,44	0,096
RO01 - Roof	0,37	0,111
FR01 - Flat Roof	0,43	0,136
BC01 - Basement Ceiling	0,46	0,144
FS01 - Floor Slab	0,41	0,210
BW01 - Basement Wall	0,49	0,136

Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
RORI01 - Roof Ridge	0,94	-0,062
RORI02 - Roof Ridge	0,94	-0,025
MRRIO1 - Monopitched Roof Ridge	0,95	-0,112
MRRIO2 - Monopitched Roof Ridge	0,92	-0,089
ROVE01 - Roof Verge	0,94	-0,068
ROVE02 - Roof Verge	0,93	-0,052
FRRP01 - Flat Roof Roof Parapet	0,88	-0,007
FRRP02 - Flat Roof Roof Parapet	0,88	0,026
EWEC01 - External Wall Outer Corner	0,94	-0,068
EWIC01 - External Wall Inner Corner	0,97	0,033
EWIW01 - External Wall Internal Wall	0,97	0,011
EWCE01 - External Wall internal CEiling	0,97	0,006
EWCE02 - External Wall internal CEiling	0,95	0,008
FSEW01 - Floor Slab External Wall	0,92	-0,066
BWFS01 - Basement Wall Floor Slab	0,96	-0,027
BCEW01 - Basement Ceiling External Wall	0,94	-0,014
BCEW02 - Basement Ceiling External Wall	0,94	0,013

Thermal bridge coefficient windows	fRsi [-]	Ψ [W/(mK)]
WISI01 - Window side	0,88	0,017
WITO01 - Window Top	0,87	0,018
WIBO01 - Window bottom	0,88	0,008
WITS01 - Window top shutter box	0,85	0,030
WITH01 - Window threshold	0,82	0,008
WITH02 - Window threshold	0,82	0,011