

CERTIFICATE

Certified Passive House Component

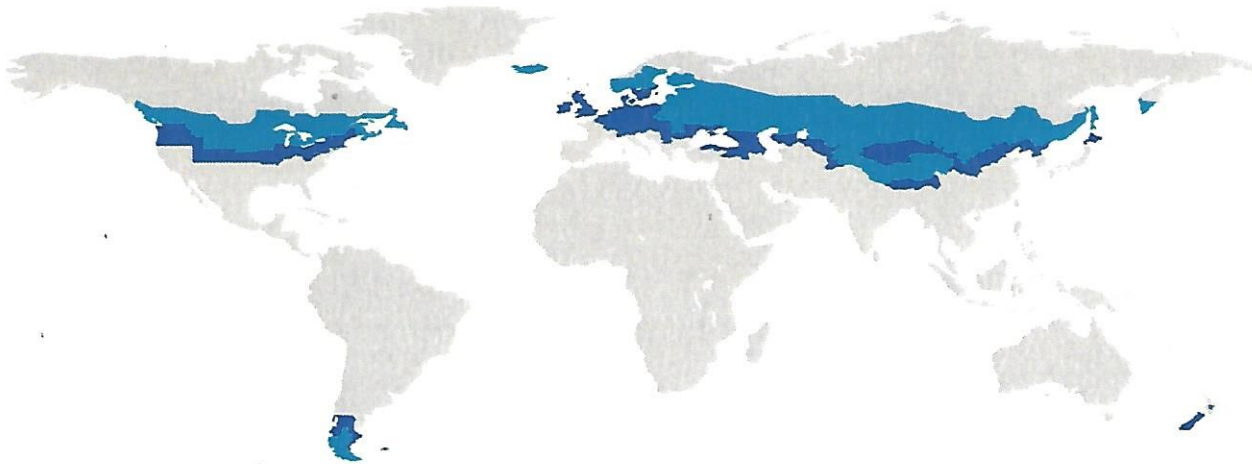
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Passive House Institute

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Category **Wall system | Insulated formwork blocks**
Manufacturer **VARIANT-HAUS-GROUP ICF Manufacturing & Sales GmbH**
Frankfurt am Main
GERMANY
Product name **VARIANT HAUS**

This certificate for the cold climate zone was awarded based on the following criteria

Hygiene criterion

The minimum temperature factor of the interior surfaces is

$$f_{R_{si}=0,25m^2K/W} \geq 0,75$$

Comfort criterion

The U-value of the installed windows is

$$U_{W,i} \leq 0,65 \text{ W}/(\text{m}^2\text{K})$$

Efficiency criteria

Heat transfer coefficient of building envelope

$$U^*f_{PHI} \leq 0,12 \text{ W}/(\text{m}^2\text{K})$$

Temperature factor of opaque junctions

$$f_{R_{si}=0,25m^2K/W} \geq 0,88$$

Thermal bridge-free design for key connection details

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

An airtightness concept for all components and connection details was provided

cold climate



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