

CERTIFICATE

Certified Passive House Component

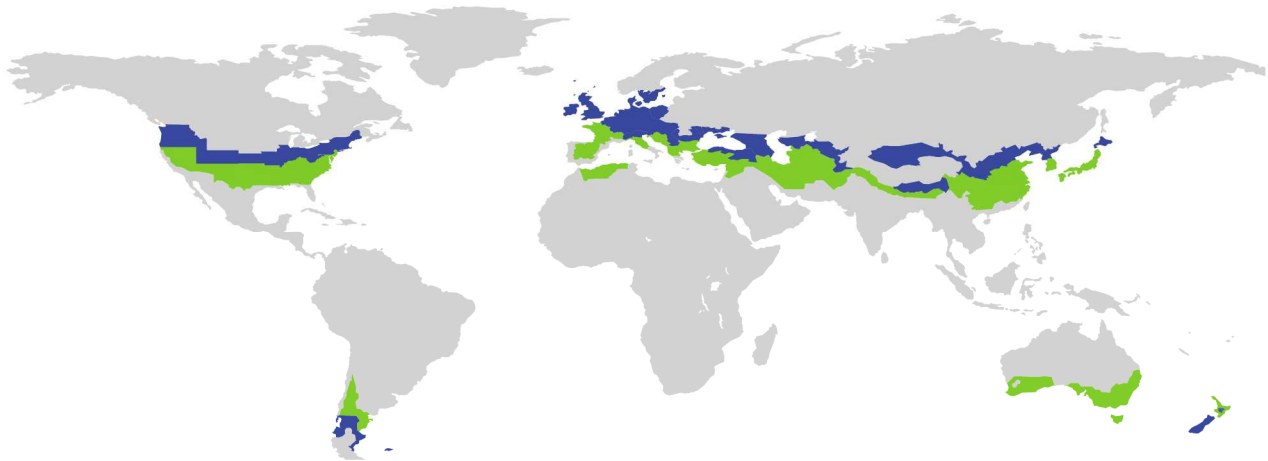
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Passive House Institute

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Category	Construction system Solid construction
Manufacturer	Egersund Tegl a/s Egersund DENMARK
Product name	Egersund Tegl - Passivhus System +C

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

www.passivehouse.com

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Determined values

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m²K)]
EW01 - External Wall	0.41	0.126
TC01 - Top Ceiling	0.44	0.085
FS01 - Floor Slab	0.49	0.099

Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
ROVE01 - Roof Verge	0.89	-0.021
ROEA01 - Roof Eaves	0.92	-0.050
ROVE01 - Roof Verge	0.92	-0.066
ROEA01 - Roof Eaves	0.92	-0.039
EWEC01 - External Wall Outer Corner	0.97	-0.065
EWIC01 - External Wall Inner Corner	0.98	0.023
EWIW01 - External Wall Internal Wall	0.97	-0.002
EWCE01 - External Wall internal CEiling	0.93	0.005
FSEW01 - Floor Slab External Wall	0.90	-0.121
FSIW01 - Floor Slab Internal Wall	0.96	0.000
BWCE01 - Basement Wall internal CEiling	0.91	-0.025
BCEW01 - Basement Ceiling External Wall	0.90	-0.009
BCIW01 - Basement Ceiling Internal Wall	0.94	0.000