

CERTIFICATE

Certified Passive House Component

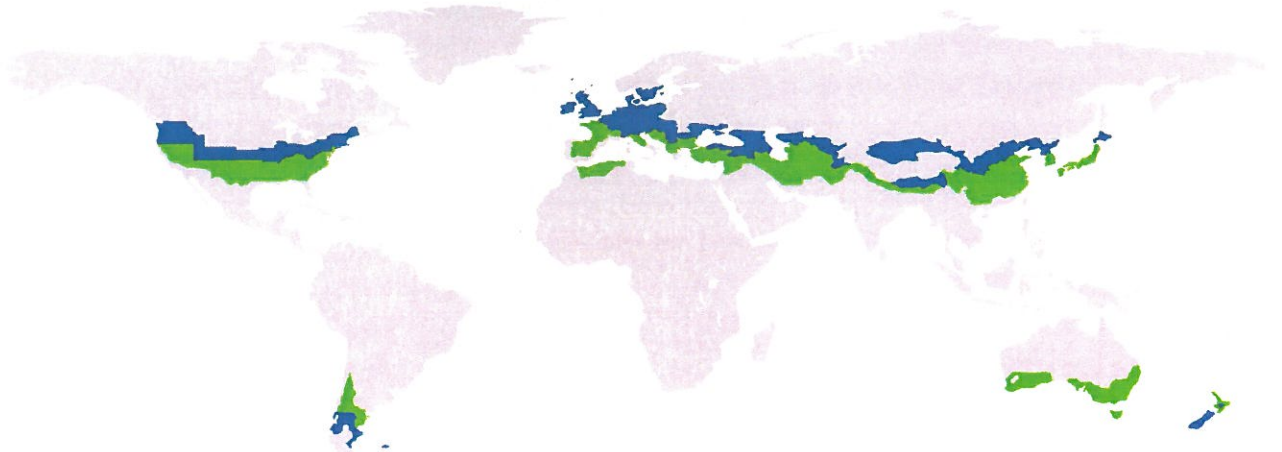
ID: 0842ws03 valid until 31. December 2016

Passive House Institute

Dr. Wolfgang Feist

64342 Darmstadt

GERMANY



Category **Construction system | Timber frame construction**
Manufacturer **Cygnum Timber Frame Ltd.**
Cork
IRELAND
Product name **Cygnum Passive 350**

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

$$U_{W,i} \leq 0.85 \text{ W}/(\text{m}^2\text{K})$$

Efficiency criteria

Heat transfer coefficient of building envelope

$$U * f_{PHI} \leq 0.15 \text{ W}/(\text{m}^2\text{K})$$

Temperaturfactor of opaque junctions

$$f_{R_{si}=0,25m^2K/W} \geq 0.86$$

Thermal bridge free design for key connection details

$$\Psi \leq 0.01 \text{ W}/(\text{m}^2\text{K})$$

An airtightness concept for all components and connection details was provided.

cool, temperate climate



cool, temperate climate

www.passivehouse.com

**CERTIFIED
COMPONENT**

Passive House Institute