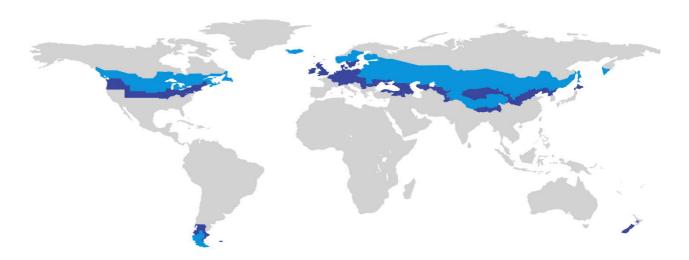
# **CERTIFICATE**

**Certified Passive House Component** 

ID: 1354cs02 valid until 31. December 2025

Passive House Institute
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Catregory Construction system | Solid construction with EIFS

Manufacturer Caparol Polska Sp. z. o. o.

Warsaw POLAND

Product name ETICS Capatect Classic / Longlife / Carbon

(cold climate zone)

# 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  $f_{Rsi=0,25m^2K/W} \ge 0,75$ 

## **Comfort criterion**

The U-value of the installed windows is  $U_{W,i} \le 0.65 \text{ W/(m}^2\text{K})$ 

# Efficiency criteria

Heat transfer coefficient of building envelope Temperaturfactor of opaque junctions

Thermal bridge free design for key connection details

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

CERTIFIED COMPONENT
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**0,12** W/(m<sup>2</sup>K)

0,01 W/(m<sup>2</sup>K)

0,88

U\*f<sub>PHI</sub> ≤

Ψ≤

**f**<sub>Rsi=0,25m²K/W</sub> ≥

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### Opaque building envelop

With the "Capatect ETICS for Passive House Construction", the wintertime thermal insulation of buildings can be adjusted to the desired standard. "Capatect ETICS for Passive House Construction", in combination with a solid exterior wall, regulates humidity and temperature. This prevents overheating in summer if the planning principles according to PHPP are observed, and in winter heat is retained longer in the building. As investigated, the construction is deemed suitable for passive houses, as both the regular U-values of the exterior components are below 0.12 W/(m<sup>2</sup>K) and the connections meet the criteria of 'thermal bridge-free'. The surface temperatures of all connections (with the exception of window connections) meet the surface temperature requirements.

#### Windows

A typical baseline Passive House window (Uw  $\approx 0.60$  W/(m²K) mit Ug = 0.52 W/(m²K) is installed in the system with the aid of an exterior mounting system (e.g. ISO TOP Winframer "Type 3" from ISO-Chemie GmbH). The overall U-value of the installed window of standard size (1.23m wide, 1.48m tall) can be increased by a maximum of 0.05 W/(m²K), i.e. Uw, insalled  $\leq 0.65$  W/(m²K).

#### Airtightness concept

Airtightness of the system is achieved in the following way: windows and doors are installed with permanently elastic, sealing materials. The interior of external wall surfaces are plastered over the entire surface, down to the unfinished floor and up to the unfinished ceiling. The interior of external walls for lightweight construction are covered over the entire surface with continuous airtight membranes. Windows should be connected to the wall with suitable airtight connection membranes or profiles.

# **Explainatory notes**

The Passive House Institute has defined international component criteria for seven climate zones based on hygiene-, comfort- and affordability criteria. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. This use might make sense in certain circunstances.

