

# Certificate

## Certified Passive House component

For cool temperate climates, valid until 31 December 2019

Passive House Institute  
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Category: **RAVAGO Building Solutions SA**  
Manufacturer: **76, Rue der Merl**  
**L-2146 Luxemburg**

Product name: **RAVAGO Passivhaus System**

### This certificate was awarded based on the following criteria:

Heat transfer coefficient of building envelope:

$$f * U_{opaque} \leq 0.15 \text{ W}/(\text{m}^2\text{K})$$

with f: temperature reduction factor

Thermal bridge free design:

$$\Psi_e \leq 0.01 \text{ W}/(\text{mK}) \text{ for key connection details}$$

with  $\Psi_e$ : linear heat transfer coefficient

$$U_{w, \text{standard window, installed}} \leq 0.85 \text{ W}/(\text{m}^2\text{K})$$

with standard window: width 1.23 m; height 1.48 m

Interior surface temperatures above 17°C

at  $\vartheta_{\text{ext}} = -10^\circ\text{C}$  und  $\vartheta_{\text{int}} = 20^\circ\text{C}$

Airtightness of all components and connection details is provided

### Certified connection details as per the certification report are listed below:

Enumeration of thermal bridge free connections

Having fulfilled all certification criteria, Dow Passivhaus System has been certified as Passive House suitable for the following connection details:

- Plinth detail 1.1: slab on grade (timber frame construction)
- Plinth detail 1.2: slab on grade (masonry wall)
- Plinth detail 2: heated basement (concrete wall)

