

Certificate

Certified Passive House component

For cool temperate climates, valid until 31 December 2022

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Category: **Floor Slab System**
Manufacturer: **LohrElement GmbH**
97737 Gemünden a. Main, GERMANY
Product name: **ISOLOHR Passivhaus Bodenplatte**

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 Ψ_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:

(further information see Appendix!)

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

- Insulated concrete form: (01_ext. wall - insulated concrete form)
- Exterior insulation and finish system (concrete wall): 02_ext. wall - EIFS - concrete wall
- Exterior insulation and finish system (masonry wall): 03_ext. wall - EIFS - masonry wall
- Multilayer masonry wall (clinker brick façade with core insulation): 031_ext. wall- EIFS - clinker brick façade
- Lightweight timber construction (type 1: ventilated façade): 04_ext. timber wall_type1 - ventilated

