

Certificate

Passive House suitable component

For cool temperate climates, valid until 31 December 2012

Passive House Institute
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Category: **Thermal bridge free connection**
Manufacturer: **Finnforest Merk GmbH**
86553 Aichach, GERMANY
Product name: **Kerto Bausystem**

This certificate was awarded based on the following criteria:

Heat transfer coefficient of building envelope:

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

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

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

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!)

Foundation/

exterior wall: DE_K_50PH, DE_K_51PH

Exterior wall: AW_K_01PH, AW_K_02PH, AW_K_06PH

Roof: DA_K_20PH, DA_K_22PH, DA_K_23PH, DA_K_24PH, DA_K_26PH, DA_K_28PH

Windows: F1, F2

