

Certificate

Passive House suitable component

For cool temperate climates, valid until 31 December 2012

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Category: **Thermal bridge free connection**
Manufacturer: **Finnforest Merk GmbH**
86551 Aichach, GERMANY
Product name: **FinnFrame-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 (I) 41 PH, DE (I) 43 PH, DE (I) 46 PH, DE (I) 50 PH, DE (I) 51 PH

Exterior wall: AW (I) 01 PH, AW (I) 02 PH, AW (I) 06 PH

Roof: DA (I) 20 PH, DA (I) 22 PH, DA (I) 23 PH, DA (I) 25 PH, DA (I) 26 PH, DA (I) 28 PH,
DA (I) 30 PH

Windows: FE (I) 60 PH, FE (I) 65 PH, FE (I) 68 PH

Partition wall: DE (I) 47 PH, DE (I) 49 PH, DA (I) 29 PH

