

Certificate

Certified Passive House Component

For cool temperate climates, valid until 31. December 2015

Passive House Institute
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Category: **Building System**
Manufacturer: **ModCell / The Proving House**
Bristol BS2 9LB, United Kingdom
Product name: **ModCell Core Passiv**

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 minimum 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 (D) / Components of window connections (W))

Base: D9 External Wall-Floor Slab, D10 Internal Wall-Floor Slab
Outer Wall: D3 Verge, D4 Eaves, D5 Outside Corner, D24 Panel Joint, D25 Roof Joint
Roof: D1 Ridge, D2 Upper Eaves Monopitch
Ceiling: D8 Upper Floor-External Wall, D11 Cellar-Wall (heated), D12 Cellar-Wall (unheated)
Partition: D7 Internal Wall-External Wall, D13 Internal Wall-Cellar Ceiling
Windows: W14s, W15t, W16b; Blind W17t, W18s, W19b, Shutter W20t, W21s, W22b, Door W23b

