Beattie PASSIVE
UK's First Certified Passivhaus Build System

2-bedroom Coach House

Developer Details

Beattie Passive Offsite Limited
Contact: Isabel Beattie
Email: isabelbeattie@beattiepassive.com
Telephone: 07791 250707
Address: Hethel Engineering Centre I Chapman Way I Hethel I Norwich I NR14 8FB

Description of the proposed development

The two bedroom coach house has been carefully considered to maximise space. The ground floor features a double garage along with a large study / workshop and WC. The first floor comprises of two spacious bedrooms, a large family bathroom and a generous open plan kitchen, dining and living space.

The coach house will be built to Passivhaus Standards.

Response to C33 - Passive Design Standards
Beattie Passive

Elements	Passive Design Standards	Beattie Passive
Thermal element U-values	○ Walls: U = 0.12 W/m2K ○ Ground floor: U = 0.12 W/m2K ○ Roofs: U = 0.12 W/m2K	○ Walls: U = 0.11 W/m2K ○ Ground floor: U = 0.09 W/m2K ○ Roofs: U = 0.11 W/m2K
Thermal bridges	Meet one of the following standards: ○ Use Accredited Construction Details ○ Achieve a maximum y = 0.08 W/m2K	Accredited construction details by the Passivhaus Institute – -0.039 W/mK
Window U-values and g- values (Glazing & Frames combined)	U = 1.4 W/m2K or less and actual solar gain g = 0.50-0.70	○ Windows: U = 0.78 W/m2K
Air leakage rate	3 m3/hr/m2@ 50 Pa test pressure	○ 0.6m3/hr/m2@ 50 and below
Overheating Risk	Comply with Building Regulation Part L Standards Assessment Procedure (SAP) Appendix P to achieve 'low' or 'medium' risk	PHPP will be carried out for each unit, to consider any overheating risks and mitigate
Electric lighting	Minimum 75% of fixed lighting to be low energy (such as compact fluorescents or LEDs)	○ Low energy lighting used

Beattie Passive Build System Limited, Hethel Engineering Centre, Hethel, Norfolk NR14 8FB
Tel: 08456 449003 **E-mail:** enquiries@beattiepassive.com

Registered in England No. 06834881 VAT No. 976 3551 82

A Patented Product

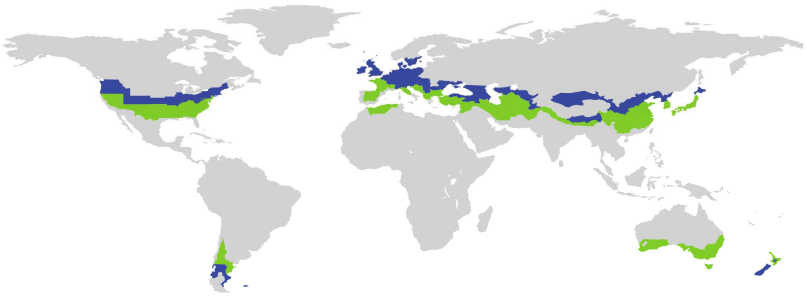
Beattie Passive has certification from the Passivhaus Institute in Germany for the build system. Please see certification below.

ZERTIFIKAT

Zertifizierte Passivhaus-Komponente

ID: 0842ws03 gültig bis 31. Dezember 2017

Passivhaus Institut
Dr. Wolfgang Feist
64342 Darmstadt
Deutschland



Kategorie	**Bausystem I Leichtbau**
Hersteller	**Beattie Passive Build System Limited** **Chedgrave, Norfolk** **UNITED KINGDOM**
Produktname	**Beattie Passiv Holzbausystem**

Dieses Zertifikat für kühl-gemäßigtes Klima wurde nach Prüfung folgender Kriterien zuerkannt

Hygiene Kriterium

Der minimale Temperaturfaktor der Innenoberflächen ist	$f_{Rsi=0,25m^2K/W} \geq$	**0,70**

Komfort Kriterium

Der U-Wert der eingebauten Fenster ist	$U_{W,I} \leq$	**0,85** W/(m²K)

Effizienzkriterium

Der U-Wert der opaken Gebäudehülle ist	$U*f_{PHI} \leq$	**0,15** W/(m²K)
Temperaturfaktor opaker Anschlüsse	$f_{Rsi=0,25m^2K/W} \geq$	**0,86**
Wärmebrückenfreies Design entscheidender Anschlüsse	$\Psi \leq$	**0,01** W/(m²K)

Ein Luftdichtheitskonzept für alle Bauteile und Anschlüsse wurde nachgewiesen

kühl-gemäßigtes Klima

ZERTIFIZIERTE KOMPONENTE
Passivhaus Institut

kühl-gemäßigtes Klima

www.passiv.de

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CERTIFIED COMPONENT
Passive House Institute

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