



#PHTowards2023

PARC Y RHODYN

“...in the winter it’s nice and warm and if it’s a sunny day in the summer it’s just cool.”

- Fred Powell, age 7



KEY STATS:

181 m ² TFA	5 Occupancy	2022 Certified
1436 £/m ² Construction costs	450 £/a Running costs	4,630 £/a Cost comparison

PERFORMANCE:

15 kWh/m ² a Heat demand	11 W/m ² Peak heat load	0.40 ACH Airrightness
60 kWh/m ² a Primary Energy Demand	27 kWh/m ² a Primary Energy Generation	82.34 kWh/m ² a EUI
2.29 £/m ² Demand running costs	0.0 Overheating %	361 kgCO ₂ e/m ² Embodied Carbon

Parc y Rhodyn is the first off-grid UK certified Passivhaus. Built as a One Planet Development, the ambitious client brief required a low impact home with minimal operational emissions.

LOCATION: Carmarthenshire
BUILDING TYPE: Housing

STANDARD: Passivhaus Classic **FORM FACTOR:** 3.17
CONSTRUCTION: EcoCocon SIPs + Timber Frame



TEAM CREDITS:

Clients: Brendan & Ludka Powell
Architects: Michał Rudnicki (RIBA WS 1-3), Huff and Puff Construction (RIBA WS 4-6)
Consultants: Barry Honeysett CSCE, Green Building Store, Juraj Mikurcik
Contractors: Hawkland Ecological Construction, Dai Rees
Certifier: Zero Energy + Passivhaus

THANKS TO SPONSORS

