Certificate

Certified retrofit
'EnerPHit Classic'
(Climate zone: Warm-temperate)

Mead: Energy & Architectural Design Ltd.

Authorised by:

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

XXXXXXX United Kingdom/ Britain

EnerPHit Certified Retrofit
Passive House Institute
| classic | plus | premium |

Client	VVVVVVUnited Kingdom/ Britain
Architect	Ruth Butler Architects 7 Convent Lane PO10 7JJ , United Kingdom/ Britain
Building Services	Cundall 1 Carter Lane EC4V 5ER London, United Kingdom/ Britain
Energy Consultant	Cundall 1 Carter Lane EC4V 5ER London, United Kingdom/ Britain

Buildings retrofitted to the EnerPHit Standard offer excellent thermal comfort and very good air quality all year round. Due to their high energy efficiency, energy costs as well as greenhouse gas emissions are extremely low.

The design of the above-mentioned building meets the criteria defined by the Passive House Institute for modernization to the 'EnerPHit Classic' standard:

Building quality			**This building**		**Criteria**	**Alternative criteria**
Heating	Heating demand	[kWh/(m²a)]	**19**	≤	20	-
Cooling	Frequency of overheating (> 25 °C)	[%]	**0**	≤	10	
Airtightness	Pressurization test result (n_{50})	[1/h]	**0.5**	≤	1.0	
Renewable primary energy (PER)	PER-demand	[kWh/(m²a)]	**72**	≤	66	72
	Generation (reference to ground area)	[kWh/(m²a)]	**17**	≥	-	8
Component quality						
	Building envelope to ambient air (U-value)	[W/(m²K)]	**0.16**	≤	-	
	Building envelope to ground (U-value)	[W/(m²K)]	**0.18**	≤	-	
	Wall with interior insulation to ambient air (U-value)	[W/(m²K)]	**0.25**	≤	-	
	Windows/Exterior doors (Uw,installed)	[W/(m²K)]	**0.75**	≤	-	
	Glazing (g-value)	[-]	**0.62**	≥	-	
	Glazing/shading (max. solar load)	[kWh/(m²a)]	**299**	≤	-	
	Ventilation (effect. heat recovery efficieny)	[%]	**68**	≥	-	

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Certifier: Kym Mead, Mead Ltd