





## Cottage - 2018 - Block built - 115m<sup>2</sup> (1240ft<sup>2</sup>)



Existing Building Details						
Building Elements		Insulation Thickness (mm)	U-Value (W/m².K)			
Walls	Cavity walls 350mm	50mm-100mm	0.1			
Roof	Pitched Roof insulated	300mm	0.1			
Floor	Floor passive raft	Unknown	0.1			
Windows	Triple glazed	N/A	0.6			
Doors	Door + porch	N/A	1.5			

Existing Heating and Lighting Characteristics				
	Heating System	Energy	Efficiency (%)	
Primary Heating System	Exhaust Air Source Heat pump (300W)	Electricity	340%	
Secondary Heating System	Wood burning stove (Low NOx DEFRA approuved)	Multi fuel	75%	
Renewable	Photovoltaic panels - 1kWp			
Lights	LED			

Results			
Thermal bridging factor	0.036 W/m².K		
Air pressure Test (3)	DEAP value - 0.0246 ac/hr		
BER	A2 - 35kWh/m²/year		
Build cost	€ 160,000 (incl. builder, engineer, architect)		

Audit report edited on 10/12/2019

