

Thermal Performance Test Report



Build Test Solutions Ltd Unit A Building 8 The Old Depot, Bridge Street, Weedon Northampton NN7 4PS		Measured HTC 134 W/K	Measured HLP 1.6 W/m²K
Report Date 03 July 2025	Unique Reference 45ADD33C-0C7F-4A12-96A5-D0B382D6E957		

Building Reference	Example House	Number of Occupants	3
Dwelling Type	House / Bungalow	Floor Area	85.0 m²
Attachment	Detached	Party Wall Area	-
Wall Type	Cavity / Timber-framed / Other	Design HTC	149 W/K
Main Heating Type	Gas	Additional Heating	No
Seasonal Efficiency	90.9%	On-site Renewables	No
Glazing Type	Double	Windows Measured	Yes
Frame Type	u-PVC	Overshading	-

Measured Result			
Heat Transfer Coefficient (HTC)		134 W/K	<u>Heat Transfer Coefficient</u>
Confidence Interval		[-19, +18] W/K	The HTC is a measure of whole building thermal performance. It is the sum of all heat loss through the envelope of the building (walls, floors, roofs, windows and doors) and is not influenced by factors such as occupancy, internal temperatures or weather conditions.
Heat Loss Parameter (HLP)		1.6 W/m²K	<u>Heat Loss Parameter</u>
Heat Loss Rating		Good	The HLP is the HTC normalised by floor area and can be used to rate and compare different buildings.
<i>The lower the number, the better the building is at retaining heat and the lower your energy bills will be.</i>			

Performance Gap	The design HTC was a predicted value entered prior to calculating the measured result and is usually obtained from a SAP assessment or EPC.
↓ 10 % Better than design HTC (149 W/K)	

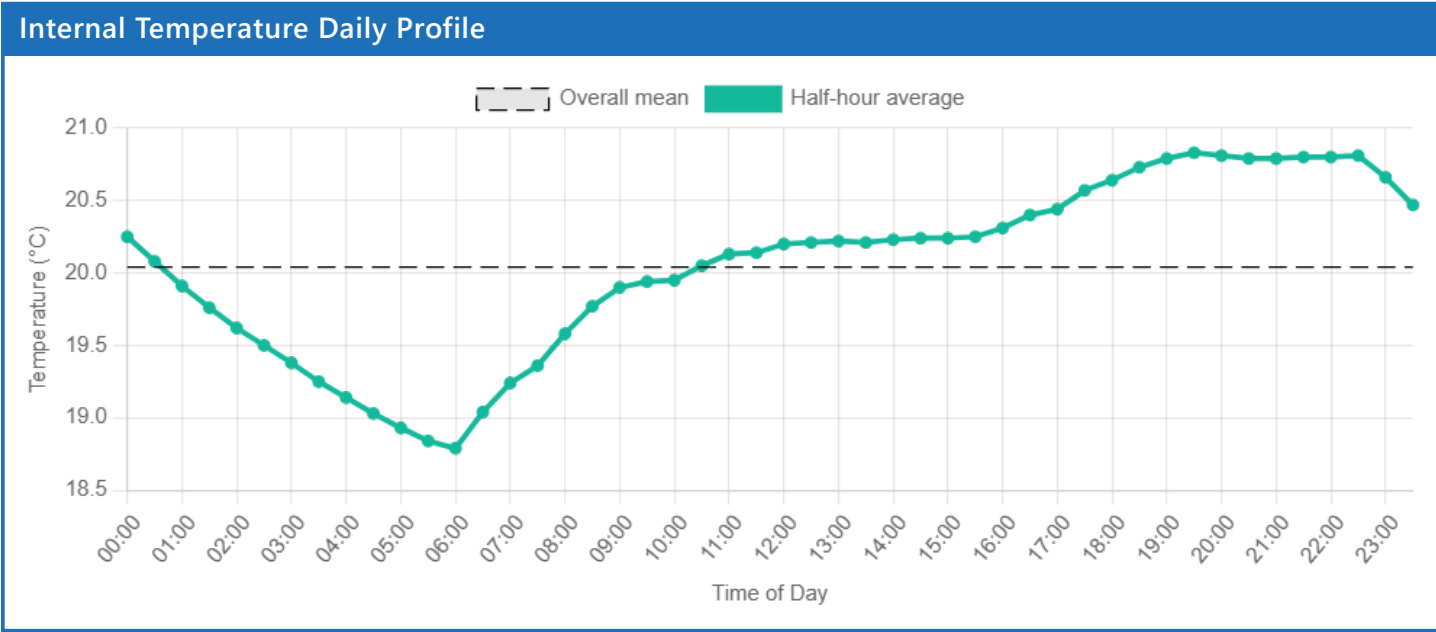
Heat Loss Rating Scale		(Lower value means less heat loss)	This HLP
0-1	Excellent		
1-2	Good		
2-3	Average		
3+	Poor		

Calculation Details		Temperature Metrics	
Measurement From	01 January 2024 - 00:00	Mean Internal Temperature	20.0 °C
Measurement To	23 January 2024 - 15:00	Mean External Temperature	3.6 °C
Calculation Method	SmartHTC (Smart Meter Data)	Mean Temperature Difference	16.5 °C

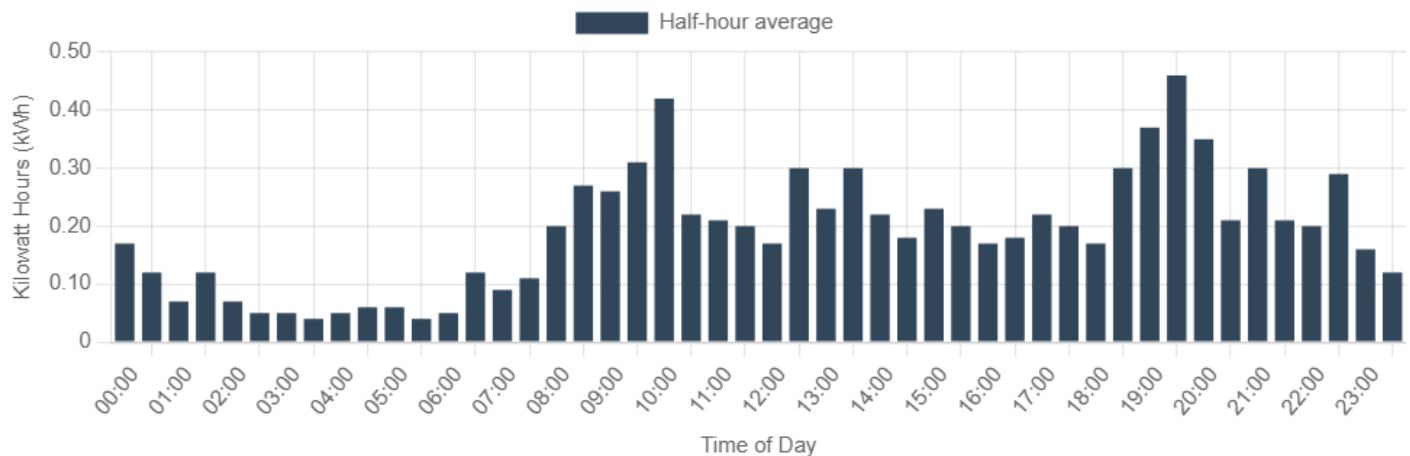
Energy Consumption (22 days 15 hours)		
	Total (kWh)	Average per Day (kWh)
Electricity Import	204.8	9.05
Electricity Generation	-	-
Electricity Export	-	-
EV Charging	-	-
Heat Pump Total Output	-	-
Heat Pump Electricity Input	-	-
Net Electricity Consumption	204.8	9.05
Gas Consumption / Heating Oil	1,014.1	44.82

Heating System Sizing		
Peak Heat Demand	3.4 kWp	The peak heat demand determines what size heating system is required to maintain the specified design conditions. It can help specify the correct size boiler, heat pump or other heat generator that is needed to heat this property effectively at the coldest time of year.
Design Internal Temperature	20.0 °C	
Design External Temperature (Winter)	-5.1 °C	

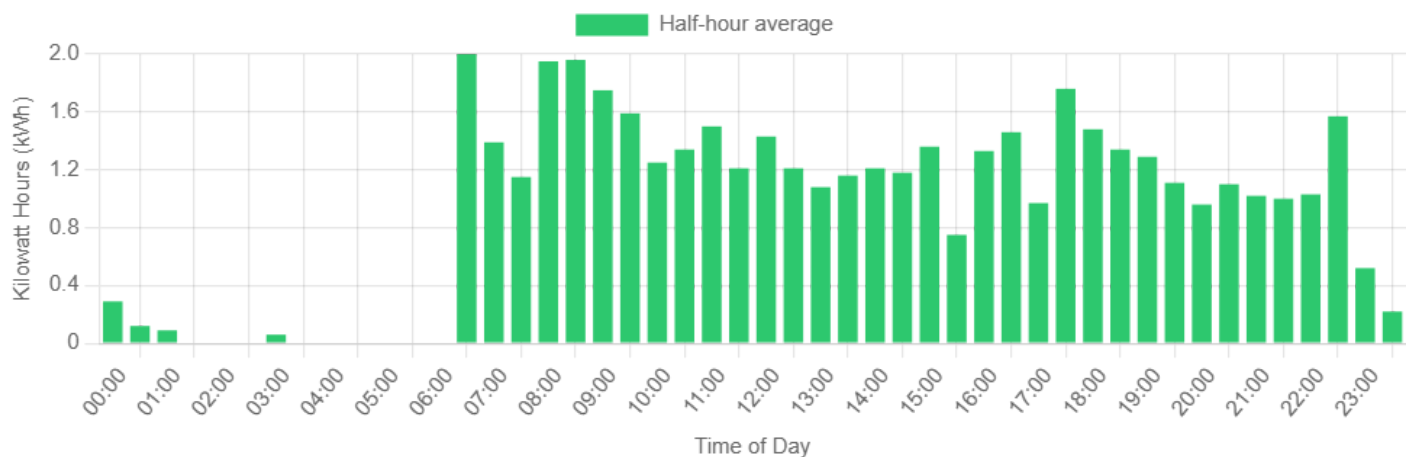
Air Leakage		
Infiltration Heat Loss	9 W/K	The infiltration heat loss is the proportion of the total heat loss that is attributable to unintended air leakage via holes, gaps and cracks in the building fabric (such as walls, floors, roofs, windows and doors).
Percentage of Total HTC	7 %	
Measured Air Permeability at 4 Pa	0.48 m³/h.m²	



Electricity Consumption Daily Profile



Gas Consumption Daily Profile



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All times are displayed in: GMT Daylight Time (UTC+01:00)

SmartHTC calculator version: 4.0.1

The measurement result and underlying calculation was performed using proprietary SmartHTC technology from Build Test Solutions Ltd. All queries should be directed at the company that performed the test using their contact details displayed above.



For all other enquiries regarding SmartHTC, please visit www.buildtestsolutions.com.