



Full Report

Project: ID 136

Client: Jason Cureton

Building identifier: [///mercy.porridge.cornering](http://mercy.porridge.cornering)

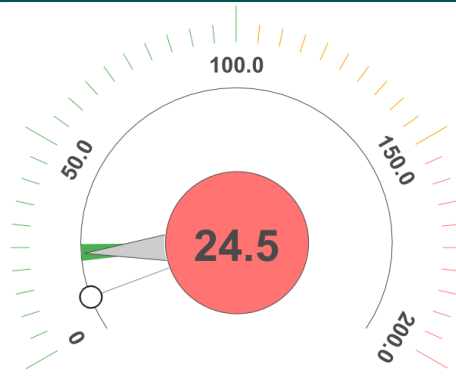
Test Credentials			
Issued by:	Redbarn		
Address:	Malvern Hills Science Park,	Technician:	-
	Geraldine Road, Malvern,	Registered No:	RED-002
	WR14 3SZ	Qualification:	-
Telephone:	-		
Email:	admin		
Report Reference:	ID 136		
Client:	Jason Cureton		
Client Contact:	Jason Cureton	Role:	Product Developer

Building Details			
Building identifier:	///mercy.porridge.cornering		
Address:	Test Rig located at: Whitehall Commercial, HR1 4FL		
Type:	Dwelling	Description:	other
Status:	TestStatus.Review	Construction:	timber
Contractor:	-	Heating Source:	other
SAP reference:	-	SAP software:	-
Floor area (m ²):	5.2	Property height (m):	1.54
Envelope (m ²):	28.47	Volume (m ³):	8.0
Air Perm (m ³ /hm ² @50PA):	10.0 (designed)	25.8 (measured)	
Number of ring mains:	1	Passive Property?	-

Test Details			
Date:	10-01-2022		
Heating Phase:	22:00 UTC - 02:00 UTC	Cooling Phase:	02:00 UTC - 06:00 UTC
External Conditions:	Average 8.6°C (min 8.3°C, max 8.7°C), max 13.0kmph winds, 0.2mm precipitation		
Temporary Sealing:	Temporary seals in place		
Notes:	Test 1 - without Insulfix product applied to rafters.		

Test Results			
This is to certify that the above named building has been tested by an approved Veritherm Testing Engineer.			
Measured Veritherm Result:	24.5 W/K		
Confidence Range:	22.0 W/K - 27.0 W/K		
	Designed	Measured	
Fabric	7.374 W/K	21.0 W/K	
Air Infiltration	1.4 W/K	3.5 W/K	
Heat Transfer Coefficient	8.77 W/K	24.5 W/K	

Result Summary (HTC)



Result Breakdown

Measured



Assumed



1 Infiltration: 3.5 W/K**

** Infiltration is calculated from provided air permeability data

Thermal Efficiency Rating

Very energy efficient - lower running costs



Performance Gap
-179%

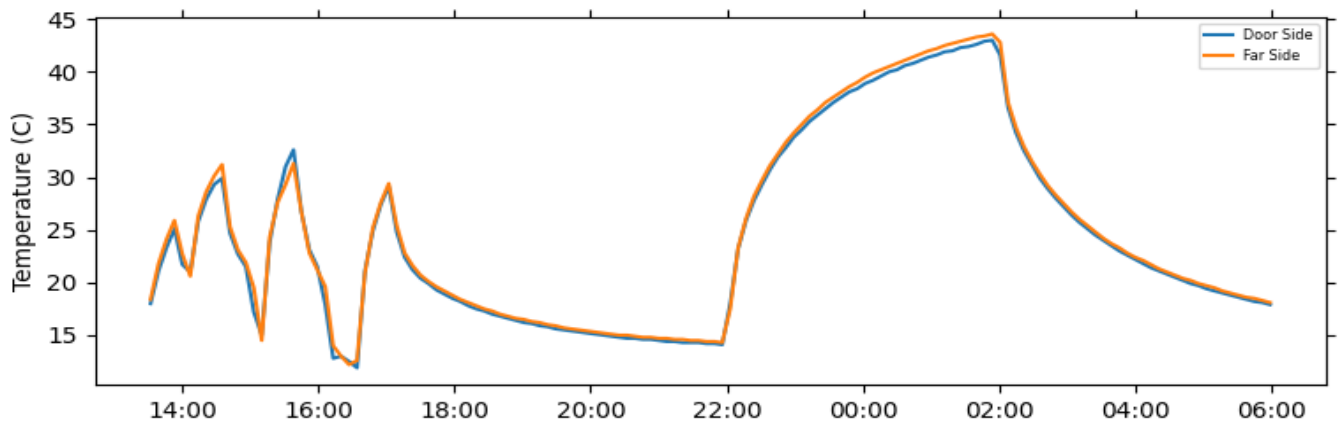
Not energy efficient - higher running costs

Average U-Value:	0.74 W/m ² K
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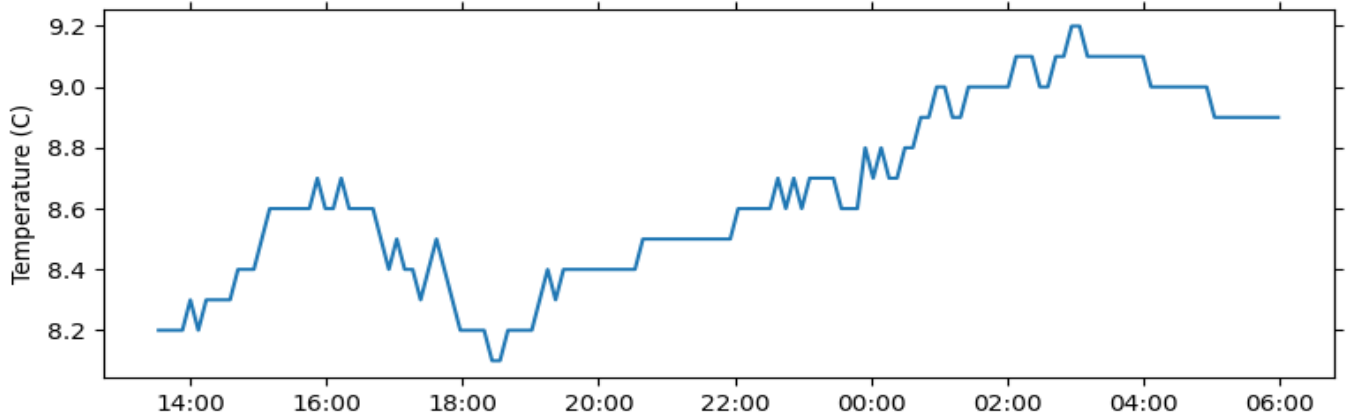
Appendix 1 - Raw Data

Heat Loads	
Total heating load (kWh):	5.54
Total other energy load (kWh):	1.25

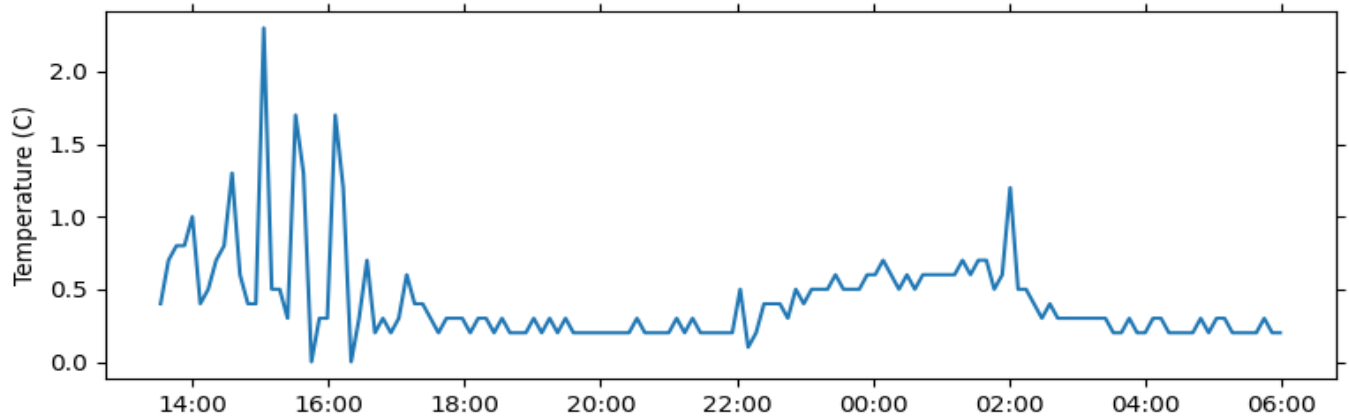
Internal Temperatures



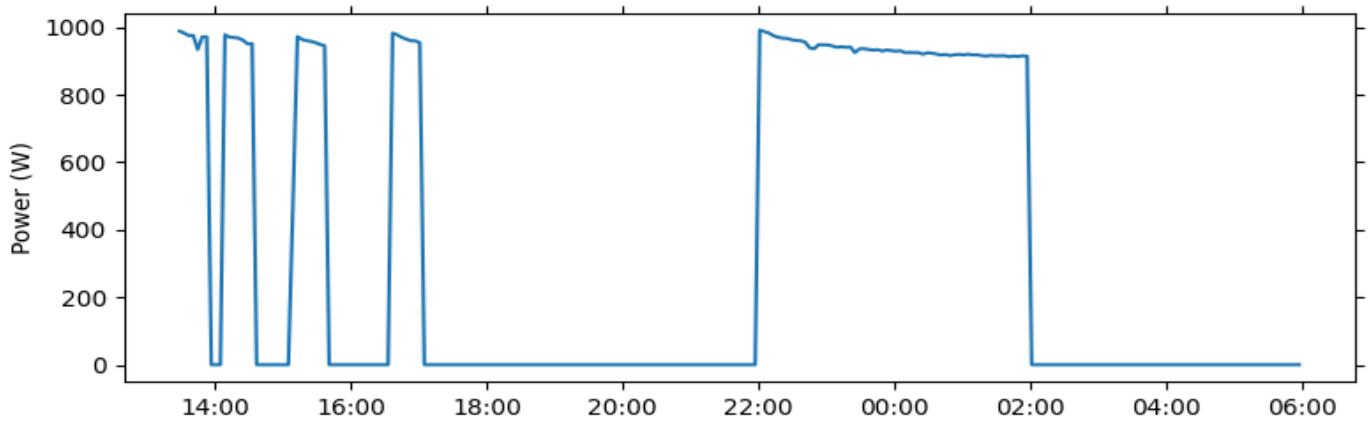
External Temperatures



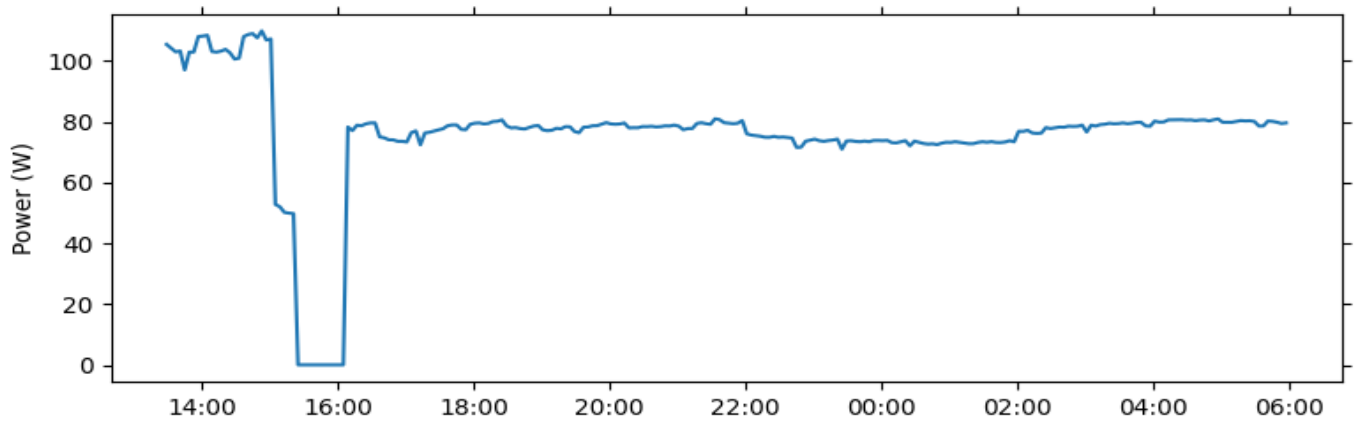
Internal Temperatures Delta



Heater Power

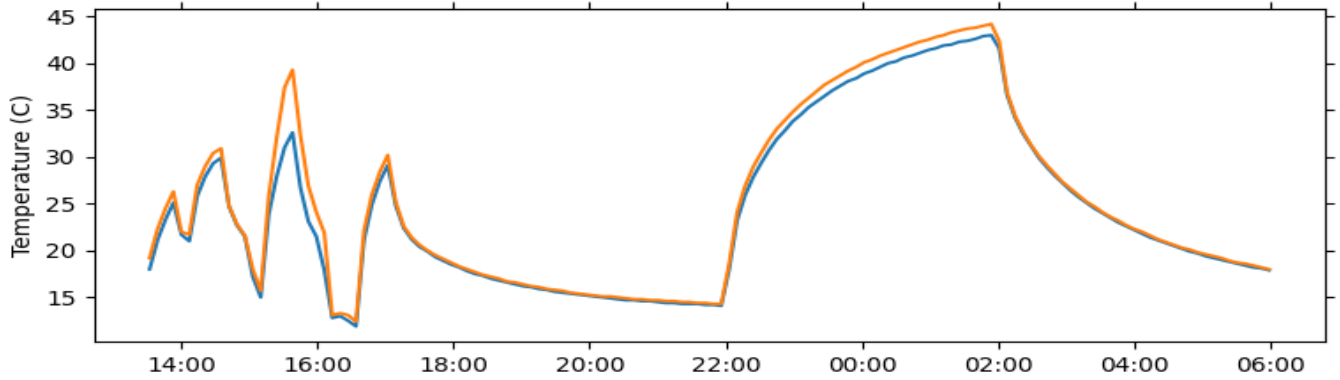


Other Power

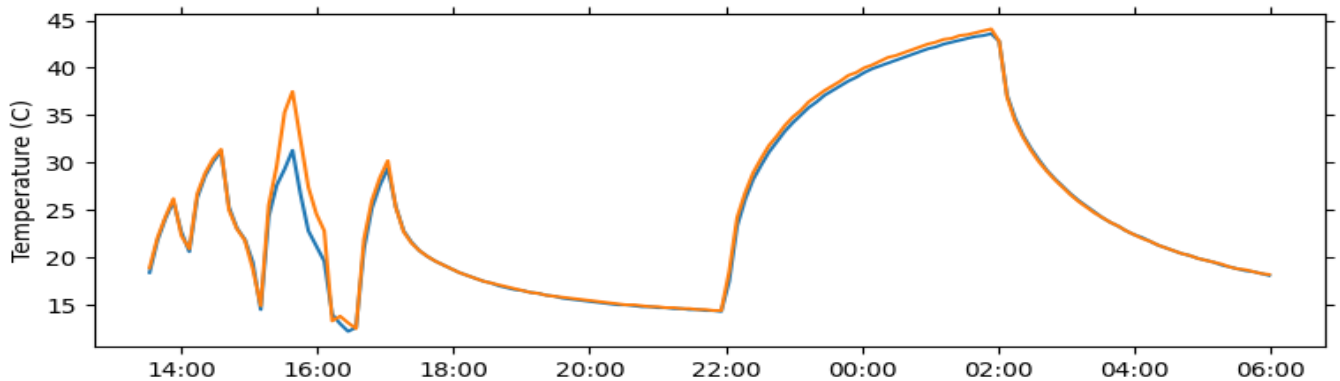


Appendix 2 - Individual Sensor Data Temperature Data

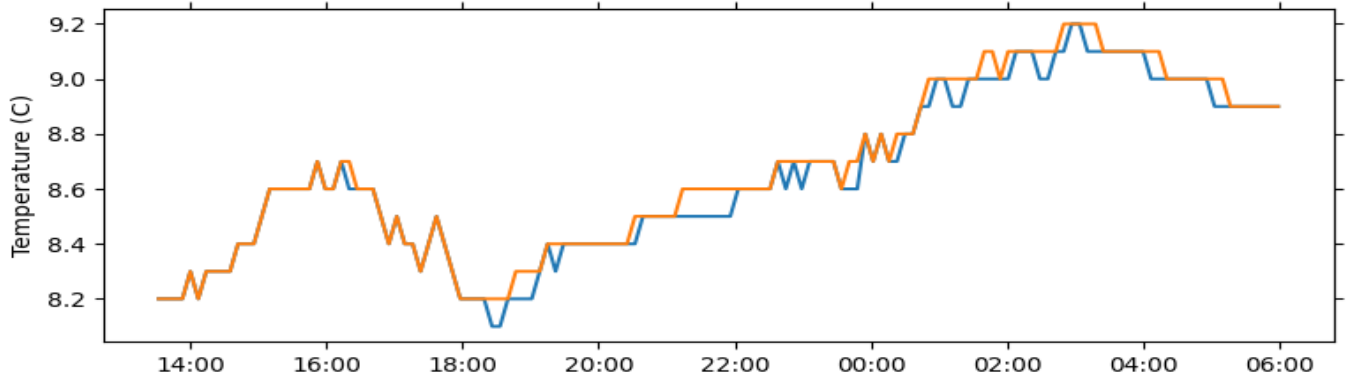
Door Side



Far Side

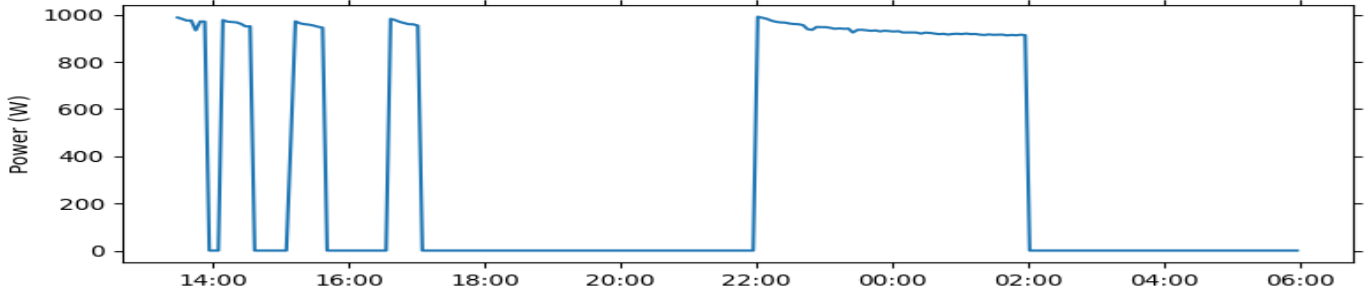


External



Power Data

Heater 1



Fan 1

