



Energy Statement

Energy and Carbon Reduction

Woolley Colliery Road

Reference Number: 009838

Date: December 2025

Issue: 1

thefesgroup.com



PLANNING



DESIGN



ON-CONSTRUCTION



EXISTING BUILDINGS

Project name: Woolley Colliery Road

Ref: 009838

Author: George Leadley

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Author:

Initial review by:

Secondary review by:



George Leadley

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Summary of changes:

Rev A - Amendment to The Client

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Company Profile

Established in 2007 as a family firm, we set out to create a sustainable, resilient business, establishing a happy and positive working environment for both clients and colleagues. It was important for us to offer adaptable and growing solutions for the areas of the construction industry that would benefit from them the most.

Creating an environment that was a pleasure to work in for both colleagues and clients was, and remains, incredibly important to us. Building our future on the foundations of honest relationships, flexibility and efficiency means that we value every client's success as though it were our own.

We have grown to become a trusted construction compliance partner. We continue to grow, to offer packages of sustainability, environmental and retrofit services, with the long-term aim of making our clients' lives easier, so they can focus on the jobs that they enjoy.

Today, the business works with a wide spectrum of clients from household name plc firms, one-off builds and everything in between. Our client list includes many of the nation's major house builders and contractors, as well as universities and public sector organisations. The team also lends their know-how to many architectural practices, M&E consultants and planners.

Introduction

This report has been prepared by the FES Group on behalf of Homes by Honey and KEITH WIKE and BRENDA WIKE of Manor House Farm, Bloomhouse Lane, Darton, Barnsley S75 5AS and CHRISTOPHER WIKE and SHARON WIKE of 23 Huddersfield Road, Darton, Barnsley S75 5ND (The Client) to accompany the planning application for the proposed development known as Woolley Colliery Road.

The development proposals will see the construction of 119 new dwellings, consisting of detached, semi-detached and terraced dwellings.

This report reviews the proposed energy and carbon reduction strategy advanced by The Client within the context of local and national planning policy. The report in particular considers and evaluates the measures incorporated into the design of the development to reduce the predicted CO₂ consumption of the site over 2021 Building Regulations under SAP10.

The following documents were considered when formulating the report:

- National Planning Policy Framework 2021 – The NPPF strengthens the emphasis on sustainable development and encourages Local Authorities to adopt standards consistent with the Government’s zero carbon building policy and other nationally described standards.
- Building Regulations Part L 2021– Approved Document L 2021 Conservation of Fuel and Power in new dwellings sets minimum energy efficiency and fabric efficiency standards for all new domestic buildings.

Sustainable Design

The building fabric, the building services and the management of a building broadly determine the energy use of a building. In understanding this, design teams can take measures to advance sustainable design from the earliest stages of a development. However sustainability is not limited to issues concerning energy consumption. Material selection, the protection of local environments, addressing flood risk and the health and wellbeing of future occupants are all issues requiring consideration. Addressing all these issues in an integrated and intelligent manner will result in truly sustainable developments.

Material Selection

Significant amounts of energy and natural resources are consumed in the production, transportation and disposal of building materials. Two issues are of significant importance in the procurement of materials: the environmental impact of materials and the sourcing of materials. The Client is dedicated to taking pro-active measures to addressing these issues.

The developer will choose materials which have a lesser environmental impact. This will be implemented during the procurement process. Suppliers will be obliged to produce Environmental Management System certificates covering the sourcing and production of materials. Timber or timber composite products will be sourced from responsible sources. Suppliers will be obliged to provide full Chain of Custody Certificates right through the supply chain; from the initial timber yard, manufacturing process, transformation and distribution. Secure certificates must be produced by valid accrediting bodies – FSC, PEFC, CSA, SFI & MTCC.

	BRE Green Guide Rating
External Wall	A+
Ground Floor	B
Intermediate Floor	C
Roof	A+
Internal Walls	A
Windows	A

Table 1- Green Guide Rating of Specification

Flood Risk

The Flood and Water Management Act 2010, directs developers to avoid, reduce and delay the discharge of rainfall to public sewers and watercourses through the use of Sustainable Urban Drainage Systems (SUDS) with the aim of protecting watercourses and reducing the risk of localised flooding and pollution.

This obligation is taken seriously:

Where possible, impermeable surfaces are kept to a minimum, thus allowing for maximum infiltration (e.g. permeable paving)



Pollution during Construction

The contractor will be required, under the terms of their contract, to minimise dust, fumes, discharges and any other form of pollution on site, in line with best practice policies:

- The Control of Dust and Emissions from Construction & Demolition: Best Practice Guidance.

The sustainable management and monitoring of waste generated during the construction of a development is a major concern to local and national planners.

Furthermore the site will allow the successful segregation of waste on site in line with Best Practice policies. However the contractor will be obliged to adopt many of the principles of the waste hierarchy:

- Accurate specifications of materials and volumes.
- Recycling and re-use of waste on site.
- Arrange take back schemes with suppliers.
- Instruct a licensed waste contractor to segregate site waste for recycling.



Health and Wellbeing

In achieving ever stricter levels of energy efficiency, it is important that designers do not lose sight of the fact that they are building homes that people can live in and not just occupy. This is an integral part of sustainability, and a hugely important consideration if the population (and the market place) is to tolerate the sustainability agenda. While it is quite difficult to measure or even quantify health and wellbeing, the following measures are a sample of the efforts made by The Client to address this issue: The proposed properties will have sufficient living /dining space. While this is obviously a marketing consideration, it does fall within this category.

The principal living rooms have sufficient glazing to allow natural light to penetrate into the rooms. Numerous studies have shown this to be beneficial to the general health and happiness of occupants. Daylighting calculations can be undertaken to demonstrate that living rooms, dining rooms, kitchen and home offices receive adequate daylighting.

- The property will benefit from a garden or private space for recreation. This will take the form of secure rear gardens to each property.
- The property has dedicated internal recycling facilities and accessible external storage in line with the local council waste and recycling collection scheme.

Water Efficiency

The average person consumes some 150 litres per day; this represents an annual increase of 1% since the 1930s. Despite the United Kingdom's wet and temperate climate, climate change will most probably result in an increase in the occurrence of drought orders and hosepipe bans. With this in mind, it is not difficult to appreciate that within the next few decades the UK (particularly the South East) will face regular water shortages.

In response to this water efficiency has gained equal billing, alongside energy efficiency. The following are the principle policy drivers.

- The Approved Document G (2015) restricts new build dwellings to a maximum consumption of 125 litres per person per day. The Water Efficiency Calculator of New Dwellings also includes an allowance for external water use.
- The Code for Sustainable Homes was first introduced in April 2007. While now disbanded, Included within the Code was mandatory water efficiency standards. Homes constructed to Code for Sustainable Homes Level 3 and 4 must achieve a maximum internal water consumption of 105 litres per person per day. Dwellings constructed to Code Levels 5 and 6 must achieve an internal water consumption of 80 litres per person per day.

- Part L 2021 and SAP10 will take account of Part G and water consumption in the calculation of the forecasted energy demand of a dwelling.



The below table details the recommended sanitary ware fittings to be adopted by The Client to meet with the requirement to achieve 125 Litres per person per day as required by Building Regulations Part G 2015.

Installation Type	Unit of Measurement	Capacity/Flow Rate	Use Factor	Fixed Use	Litres Per Person Per Day
WC (Dual Flush)	Full Flush (litres)	4	1.46	0.00	5.84
	Part Flush (litres)	2.6	2.96	0.00	7.70
Taps (excluding kitchen tap)	Flow rate (litres/minute)	6	1.58	1.58	11.06
Baths (where shower present)	Capacity to overflow (litres)	180	0.11	0.00	19.80
Showers (where bath present)	Flow rate (litres/minute)	8	4.37	0.00	34.96
Kitchen sink tap	Flow rate (litres/minute)	6	0.44	10.36	13.00
Washing Machine	Litres/kg dry load	8.17	2.1	0.00	17.16
Dishwasher	Litres/place setting	1.25	3.60	0.00	4.50
Total					114.01

Contribution from Greywater (litres/person/day)	0
Contribution from Rainwater (litres/person/day)	0
Total Internal Water Consumption	114.01
Normalisation Factor	0.91
Water Consumption with Normalisation Factor	103.75
External Use	5.00
Part G Water Consumption	108.75

Table 2 – Water Consumption

Renewable Technologies

There are a number of recognised renewable technologies which have the potential to reduce the energy consumption of a dwelling. However given the nature of the development, we judge that the following technologies are worthy of consideration;

- Solar thermal panels.
- Biomass
- Photovoltaic panels.
- Air source heat pumps.
- Combined Heat & Power
- Wind Power

Solar Thermal

Solar thermal panels use radiant solar energy to heat water for domestic consumption. The system works successfully across the UK as they can work in diffuse weather conditions. In comparison to other technologies it is considered a reliable and proven technology. The system works most efficiently when the panel or evacuated tube is mounted on a 10-60° pitch facing due south, though other combinations do work successfully. During late spring to early autumn months, the system can be expected to meet some 70-90% of a dwellings domestic hot water needs.

Most systems in the UK are two panel systems, typically 4 sq m in size and accompanied with a 180-250 litre cylinder with a dedicated solar storage capacity of 65-110 litres. The typical installation costs for solar thermal vary, especially when large volumes are considered. However a rough estimate is £3500 per plot.

Occupants can expect annual savings in the region of £50-85 per year, which is relatively modest. Solar thermal panels do not qualify for feed in tariffs, however it is expected that solar thermal systems will benefit from the Renewable Heat Incentive. A 20-25 year payback can be expected, dependent on usage and dwelling type.

Taking into consideration the proposed development, the site layout and orientation a two panel systems is recommended for consideration.



Biomass

Biomass boilers offer an environmentally sound, heating solution. Heating is generated by burning biomass, such as wood pellets or logs. This will emit the same amount of CO₂ as is absorbed while the plants were growing, therefore, the biomass is classed as carbon neutral.

Unfortunately, such a provision for this development is both unfeasible and out of proportion to the requirement.



Photovoltaic

Photovoltaic panels convert sunlight into electricity for use within a dwelling. PV panels use cells to convert light into electricity. A PV cell usually consists of 1 or 2 layers of a semi-conducting material such as silicon. The greater the intensity of sunlight, the more electricity is generated. PV systems can come in different forms. The most aesthetically pleasing are PV tiles which resemble roof tiles. However the most popular are modules which can either sit on the roof or be integrated into it. The technology is most efficient when oriented due south. However panels orientated south of east or west are suitable. Generally panels orientated away from due south require a greater surface area to generate a set amount of energy.

PV is a viable option and if installed on a select number of plots across a development, this would be the most cost effective solution to a site wide CO2 reduction. As a result The Client have confirmed that PV will be installed on all plots.



Air Source Heat Pumps

Air source heat pumps extract heat from the outside air. The heat is absorbed into a fluid, which is pumped through a heat exchanger. Low grade heat is then extracted by the refrigeration system and after passing through the compressor is concentrated into a higher temperature. This energy is then used to heat water for space and hot water use within the dwelling. While heat pumps use national grid electricity, and so are not a renewable resource, they utilise a heat source which is naturally renewed in our environment and so are considered a low carbon technology.

Heat pumps have stated CoPs in the region of 2-4, though test results outside of the laboratory have produced mixed results. Typically the heat pump is located on an external wall. It is generally accepted that 1kW in heat pump size will provide enough heating for 20m² of floor space.



Combined Heat and Power (CHP)

Combined heat and power utilises the waste energy in the generation of electricity to provide space heating and hot water to a development. In conventional means of power generation copious amounts of energy is wasted in the form of heat. The utilisation of this waste heat can see efficiencies of CHP systems typically exceed 90%.

Combined heat and power is not a renewable technology but instead is a DECC recognised low carbon technology which qualified for the Low Carbon Building Programme. To qualify as a renewable technology the use of biomass pellet or bio-diesel would be required. At the present time biomass CHP is very much in its infancy in the UK. Furthermore it is imagined there will be significant problems in locating a sustainable and local source of pellet. Without such a source the reliability of such a system and the net carbon benefit of pellet sourced from a distance are questionable. As a result we do not recommend CHP for consideration on this development.



Wind Power

The principle of harnessing wind power is well established in the UK with access to over 40% of the total European wind resource. Until recently, developments have been concentrated within coastal regions; however technological advances mean that wind power is viable in many urban locations.

Wind turbines are a means of capturing the power within a moving air mass (wind) and converting it into electricity. As yet there is no simple and practical method of incorporating wind generated electricity to sites containing a number of buildings, or requiring high energy usage.

Furthermore, the urban location also means that it would prove difficult to harness sufficient wind energy to meet the needs of the development. The high density of urban areas obstructs air patterns and reduces the efficiency of the turbine. The size of the turbine required is also likely to detract unacceptably from the local area and generate a significant amount of noise, both of which prejudice local residential amenity.

For these reasons, together with the high installation costs, potential noise pollution and high likelihood of not achieving planning approval we are not proposing to employ wind turbines on this site.



Energy Strategy

The Context

The proposed works fall under the scope of Approved Document L 2021. The Approved Document sets minimum fabric energy efficiency standards and a maximum CO2 emission rate for residential buildings. To place the proposed energy strategy into its correct regulatory context it is worthwhile summarising the minimum standards included in the Approved Document

Element	Part L 2021 Minimum Standard
External Walls	0.26W/m2K
Roof	0.16W/m2K
Floor	0.20W/m2K
Glazing & Doors	1.80W/m2K
Air Test	8.00m3/h.m2 at 50Pa

Table 3 – Minimum Fabric Efficiency Standards

Proposed Strategy

The National Planning Policy Framework requires that all development proposals are in line with the Government’s zero carbon buildings programme.

The figures and calculations detailed in this report have been taken from SAP10 (2021 Building Regulations).

In response to this guidance, and recent shifts within the industry, The Client proposes the adoption of a strategy which addresses the core policy goals of sustainable construction:-

- Reduced CO2 emissions to combat the causes of climate change.
- Reduced energy consumption to address legitimate concerns of energy security.

By reducing the energy requirement of the building, the sustainable credentials of each development are enhanced and are not validated by simply bolting on expensive renewable equipment. By focusing on fabric performance and the provision of efficient heating systems each dwelling is intrinsically “green”.

Before the potential of various technologies can be assessed, it is first necessary to calculate the base line energy consumption of the development and hence the target reduction.

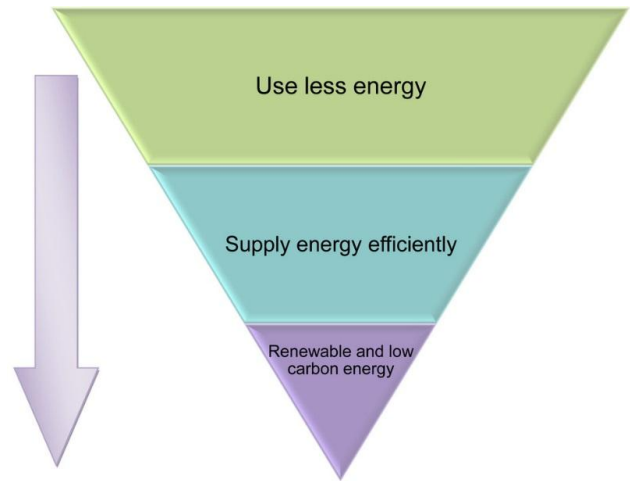
The proposed dwellings were modelled in SAP10 to determine the energy consumption and corresponding CO2 emissions of the development. Standard Assessment Procedure, or SAP, is the Government’s approved methodology for the calculation of energy consumption and CO2 emissions for new build dwellings.

In line with best practice the proposed energy strategy for Woolley Colliery Road will adhere to the principles of the Energy Hierarchy;

- Be Lean – reduce the need for energy.
- Be Clean – supply and use energy in the most efficient manner.
- Be Green – supply energy from renewable sources.

Adhering to the principles of the Energy Hierarchy has a number of benefits. The principle benefits are;

- By reducing the energy requirement of each dwelling the renewable requirement shrinks in proportion. This has obvious cost benefits.
- The sustainable credentials of each development are enhanced and are not validated by simply bolting on expensive renewable equipment. By focusing on the fabric performance and the provision of efficient heating systems each dwelling is intrinsically “green”.



Be Lean.

The Client has confirmed Lean measures equal to a 7.49% reduction in fabric heat loss across the building envelope. This greatly reduces the need for energy within a dwelling.

Be Clean.

The Client has confirmed Clean measures which include high efficiency gas combi boilers with time and temperature dual zone controls to allow the user to maximise the control to ensure efficient use of the main heating system. 100% Low Energy Lighting to be installed alongside system 3 dMEV ventilation.

Be Green.

The Client has confirmed Green measures where Photovoltaic panels will be installed along with EV charging points to promote the use of electric/hybrid vehicles.

Establishing a Baseline

To adequately ascertain the potential of The Client's preferred strategy, a baseline energy consumption associated with the development must be calculated. As such the development was modelled in SAP10 to determine the current CO² emission and associated energy requirement prior to the incorporation of improved fabric efficiencies and renewable technologies. The table below summarises the results calculated.

House Type	No	Baseline Emission Rate (kg/year)	Baseline Energy Rate (kWh/year)
HT - 2B3P - SEMI-END	8	7,460.54	39,059.52
HT - 2B3P - MID	2	1,662.54	8,675.70
HT - 2B4P CR - SEMI-END	4	3,735.72	19,492.27
HT - 3B4P - SEMI-END	7	6,815.83	35,577.65
HT - 3B4P - MID	1	879.33	4,573.89
HT - 3B5P - END	1	1,009.72	5,270.05
HT - 3B5P - MID	1	914.08	4,755.65
HT - Avocado - SEMI-END	5	4,570.41	23,941.10
HT - Avocado - MID	1	804.54	4,200.40
HT - Blueberry - SEMI-END	3	2,878.26	15,037.23
HT - Chestnut - SEMI	19	18,345.79	95,746.17
HT - Clover - DET	9	9,647.24	50,407.81
HT - Clover - SEMI	5	4,900.22	25,520.47
HT - Dandelion - DET	9	10,344.25	54,128.44
HT - Eucalyptus - DET	7	7,810.49	40,811.68
HT - Jarrah - DET	4	4,944.89	25,855.25
HT - Lavender - DET	4	5,484.46	28,934.78
HT - Linden CR - DET	7	8,985.56	46,971.50
HT - Macadamia - SEMI	6	7,466.71	39,103.92
HT - Neem - DET	5	6,517.52	34,103.89
HT - Poppy - DET	3	3,921.26	20,586.60
HT - Primrose - DET	6	8,749.48	45,846.30
HT - Rosemary - DET	2	2,559.02	13,374.97
Total	119	130,407.85	681,975.23

Table 4 – Baseline Energy Consumption & CO²

The calculations summarised in the table above confirm Woolley Colliery Road has a baseline site wide energy requirement of 681,975.23 kWh/year and an associated CO₂ emission rate of 130,407.85 kgCO₂/year.

Fabric and Building Services Specification

The Client proposes a series of fabric and building service enhancements that exceeds the minimum requirements of Part L 2021. By placing a significant emphasis on the performance of the fabric of each property, reductions in energy and carbon will be achieved. The following table details the anticipated fabric efficiency and building services standards to be incorporated into the design. These measures constitute the lean efforts.

Element	Part L 2021	Enhanced Specification
Wall	0.26W/m ² K	0.19W/m ² K
Roof	0.16W/m ² K	0.09W/m ² K
Floor	0.20W/m ² K	0.10-0.12W/m ² K
Glazing & Doors	1.80W/m ² K	1.20-1.50W/m ² K
Air Test	8.00m ³ /h.m ² at 50Pa	4.00m ³ /h.m ² at 50Pa
Renewables (PV)	40% of Floor Area / 6.50	See Table 6

Table 5 – Enhanced Specification Summary & Comparison

The U-values above show that the minimum requirements of Part L have been exceeded.

In addition to the summary above the following additional measures will be incorporated into the design, constituting the **clean** measures to reduce energy consumption;

- The Client has adopted a set of bespoke thermal bridging details which is being implemented on the site. These reduce thermal bridging throughout junctions and penetrations through the building fabric.
- Efficient independent heating systems will be provided with time and temperature dual zone controls. These will allow the eventual occupants to exercise control over their heating system and thus reduce energy consumption.
- Energy efficient lamps will be installed in each light fitting

- Water consumption is now included in the calculation of a property's energy consumption. Thus each property will adhere to the requirements of Approved Document G– maximum internal water consumption of 125 litres per person per day.
- PV will be installed on all plot to achieve SAP compliance. Please see Table 6 (below) which confirms the PV array required.

Housetype	Total kWp
HT – 2B3P – SEMI-END	1.20
HT – 2B3P – MID	1.20
HT – 2B4P CR – SEMI-END	1.60
HT – 3B4P – SEMI-END	1.60
HT – 3B4P – MID	1.60
HT – 3B5P – END	1.60
HT – 3B5P – MID	1.60
HT – Avocado – SEMI-END	1.20
HT – Avocado – MID	1.20
HT – Blueberry – SEMI-END	1.20
HT – Chestnut – SEMI	1.60
HT – Clover – DET	1.60
HT – Clover – SEMI	1.60
HT – Dandelion – DET	1.60
HT – Eucalyptus – DET	2.00
HT – Jarrah – DET	2.00
HT – Lavendar – DET	2.40
HT – Linden CR – DET	2.00
HT – Macadamia – SEMI	1.20
HT – Neem – DET	2.40
HT – Poppy – DET	2.80
HT – Primrose – DET	2.00
HT – Rosemary – DET	2.40

Table 6 – PV Array

It is clear that the proposed strategy places a great importance on the efficiency of a buildings thermal envelope and internal building services. This emphasis is to be encouraged. It recognises that it is inherently more sustainable to invest resources in reducing a property's long term energy consumption in contrast to short term generation benefits.

Reduced Emission Rate & Energy Requirement

To determine the benefits of the proposed specification, the development was again modelled in SAP 10. The table below summarises the results calculated.

House Type	No	Enhanced Emission Rate (kg/year)	Enhanced Energy Rate (kWh/year)
HT - 2B3P - SEMI-END	8	7,079.90	37,659.94
HT - 2B3P - MID	2	1,550.74	8,240.10
HT - 2B4P CR - SEMI-END	4	3,525.85	18,630.18
HT - 3B4P - SEMI-END	7	6,543.92	34,610.87
HT - 3B4P - MID	1	833.73	4,399.23
HT - 3B5P - END	1	989.07	5,242.84
HT - 3B5P - MID	1	885.08	4,687.36
HT - Avocado - SEMI-END	5	4,268.30	22,683.44
HT - Avocado - MID	1	757.67	4,022.00
HT - Blueberry - SEMI-END	3	2,799.89	14,923.24
HT - Chestnut - SEMI	19	17,353.69	91,647.64
HT - Clover - DET	9	9,380.83	49,697.39
HT - Clover - SEMI	5	4,752.67	25,135.96
HT - Dandelion - DET	9	10,041.24	53,236.26
HT - Eucalyptus - DET	7	7,659.89	40,435.19
HT - Jarrah - DET	4	4,828.23	25,509.73
HT - Lavender - DET	4	5,456.88	28,801.46
HT - Linden CR - DET	7	8,745.62	46,218.56
HT - Macadamia - SEMI	6	7,027.49	37,617.33
HT - Neem - DET	5	6321.88	33,296.84
HT - Poppy - DET	3	3,810.28	20,046.51
HT - Primrose - DET	6	8,540.39	45,299.46
HT - Rosemary - DET	2	2,475.82	13,032.08
Total	119	125,629.03	665,073.60

Table 7 – Reduced Emission Rate & Energy Requirement

The calculations summarised in the table above confirm Woolley Colliery Road has a reduced energy requirement of 665,073.60 kWh/year and an associated emission rate of 125,629.03 kgCO₂/year. These are respectively 2.48% and 3.66% reductions over the baseline calculated previously.

Evaluation

The FES Group was instructed by The Client to review the performance of the proposed Energy Strategy for the development at Woolley Colliery Road. The energy strategy was detailed previously but can be best summarised as follows;

- The Client proposes an energy strategy, which addresses the two policy concerns of sustainable design and construction: climate change and energy security.
- The Client has proposed a fabric first strategy, which aims to achieve long term reductions in CO2 emissions and climate change.
- The proposed fabric and building services specification will permanently reduce regulated emissions by 3.66% and the proposed energy demand by 2.48%. This is a significant betterment and demonstrates that the proposed development will have a reduced reliance on national resources (gas and electricity).

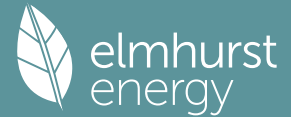
After detailed analysis we can conclude that the preferred energy strategy adheres to the principles and aspirations of sustainable design and construction as advanced by national and local government and the house building industry. We therefore recommend the adoption of the preferred energy strategy by The Client.

Future Energy Surveys Ltd T/A The FES Group and its staff shall not be held liable for any damage or loss sustained as a result of using of the information provided in this report. The report is based on drawings and information provided by the client and/or project design team at the time of issue. The information and the drawings provided to us determine the results within the report. If anything changes during the course of the ongoing design or construction, the reduction and calculations will be incorrect. The FES Group will not be held responsible for the implications of such change.

As such this report should be viewed as providing a reasonable assessment of the predicted performance of the development based on current knowledge.

Appendix A

Summary for Input Data



Plot Reference	009838 - HT - 2B3P - END		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - 2B3P - END	
Plot Address	Plot , HT - 2B3P - END, Woolley Colliery Road		SAP Version	10.2

SAP Rating	90 B	DER	12.09	TER	12.74
Environmental	90 B	% DER < TER			5.10
CO ₂ Emissions (t/year)	0.88	DFEE	36.15	TFEE	38.87
Compliance Check	See BREL	% DFEE < TFEE			7.02
% DPER < TPER	3.58	DPER	64.31	TPER	66.70

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East	
Property Tenure	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, End-Terrace	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	2	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	0.00	kJ/m ² K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	Yes	
Smart gas meter fitted	Yes	

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	17.12 m	36.60 m ²	2.38 m
	1st Storey:	17.12 m	36.60 m ²	2.70 m

8.0 Living Area	29.72	m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	87.05	72.41	0.00	None	14.64	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	42.42	0.00	None

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	60.07
1F - Timber	Plasterboard on timber frame	9.00	83.27

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	36.60	36.60	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	36.60

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	36.60

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	36.60

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	4.50	
Rear Windows	Windows	External Wall	West	2.30	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	8.51	0.17	0.17 FES	No
E3 Sill	Independently assessed	4.77	0.01	0.01 FES	No
E4 Jamb	Independently assessed	22.50	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	8.78	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	17.12	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	8.78	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	8.34	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	10.17	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.34	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.34	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.34	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.34	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

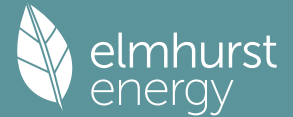
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	1
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	2

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>

Summary for Input Data



Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	4.00	m ³ /(h.m ²) @ 50 Pa
Test Method	Blower Door	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	11

24.0 Main Heating 1

Percentage of Heat	100.00	%
Database Ref. No.	18123	
Fuel Type	Mains gas	
Model Name	LOGIC CODE COMBI ESP1	
Manufacturer	Ideal Boilers	
Controls SAP Code	2110	
Delayed Start Stat	Yes	
Flue Type	Balanced	
Fan Assisted Flue	Yes	
Is MHS Pumped	Pump in heated space	
Heating Pump Age	2013 or later	
Heat Emitter	Radiators	
Flow Temperature	Unknown	
Boiler Interlock	Yes	
Combi boiler type	Standard Combi	
Combi keep hot type	None	

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	Main Heating 1
SAP Code	901
Flue Gas Heat Recovery System	Yes
Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
Cold Water Source	From mains
Bath Count	1

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

Summary for Input Data



28.2 Flue Gas Heat Recovery System

Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.20	East	30°	None Or Little		No	1.00		

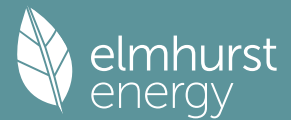
34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

- Lower cost measures
 - None
- Further measures to achieve even higher standards
 - None

Summary for Input Data



Plot Reference	009838 - HT - 2B3P - MID		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - 2B3P - MID	
Plot Address	Plot , HT - 2B3P - MID, Woolley Colliery Road		SAP Version	10.2

SAP Rating	91 B	DER	10.68	TER	11.45
Environmental	92 A	% DER < TER			6.72
CO ₂ Emissions (t/year)	0.77	DFEE	30.11	TFEE	32.92
Compliance Check	See BREL	% DFEE < TFEE			8.56
% DPER < TPER	5.02	DPER	56.75	TPER	59.75

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East	
Property Tenure	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Mid-Terrace	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	2	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	0.00	kJ/m ² K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	Yes	
Smart gas meter fitted	Yes	

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	8.70 m	36.30 m ²	2.38 m
	1st Storey:	8.70 m	36.30 m ²	2.70 m

8.0 Living Area	29.63	m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	44.26	29.62	0.00	None	14.64	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	84.84	0.00	None

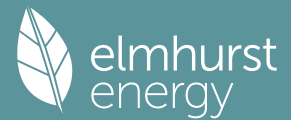
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	59.88
1F - Timber	Plasterboard on timber frame	9.00	83.05

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	36.30	36.30	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	36.30

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.10	None	0.00	75.00	36.30

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	36.30

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	4.50	
Rear Windows	Windows	External Wall	West	2.30	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	8.51	0.17	0.17 FES	No
E3 Sill	Independently assessed	4.77	0.01	0.01 FES	No
E4 Jamb	Independently assessed	22.50	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	8.70	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	8.70	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	8.70	0.04	0.04 FES	No
E18 Party wall between dwellings	Independently assessed	20.34	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	16.68	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	16.68	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	16.68	0.00	0.00	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

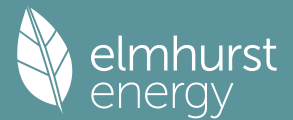
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	1
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	2

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>

Summary for Input Data



Number of blocked chimneys	<input type="text" value="0"/>
Number of intermittent extract fans	<input type="text" value="0"/>
Number of passive vents	<input type="text" value="0"/>
Number of flueless gas fires	<input type="text" value="0"/>

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	<input type="text" value="4.00"/>	m ² /(h.m ²) @ 50 Pa
Test Method	<input type="text" value="Blower Door"/>	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	11

24.0 Main Heating 1

Percentage of Heat	<input type="text" value="100.00"/>	%
Database Ref. No.	<input type="text" value="18123"/>	
Fuel Type	<input type="text" value="Mains gas"/>	
Model Name	<input type="text" value="LOGIC CODE COMBI ESP1"/>	
Manufacturer	<input type="text" value="Ideal Boilers"/>	
Controls SAP Code	<input type="text" value="2110"/>	
Delayed Start Stat	<input type="text" value="Yes"/>	
Flue Type	<input type="text" value="Balanced"/>	
Fan Assisted Flue	<input type="text" value="Yes"/>	
Is MHS Pumped	<input type="text" value="Pump in heated space"/>	
Heating Pump Age	<input type="text" value="2013 or later"/>	
Heat Emitter	<input type="text" value="Radiators"/>	
Flow Temperature	<input type="text" value="Unknown"/>	
Boiler Interlock	<input type="text" value="Yes"/>	
Combi boiler type	<input type="text" value="Standard Combi"/>	
Combi keep hot type	<input type="text" value="None"/>	

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	<input type="text" value="Main Heating 1"/>
SAP Code	<input type="text" value="901"/>
Flue Gas Heat Recovery System	<input type="text" value="Yes"/>
Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>
Solar Panel	<input type="text" value="No"/>
Water use <= 125 litres/person/day	<input type="text" value="Yes"/>
Cold Water Source	<input type="text" value="From mains"/>
Bath Count	<input type="text" value="1"/>

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Summary for Input Data



Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

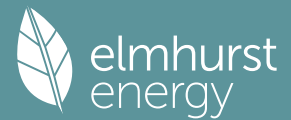
PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.20	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations
 Lower cost measures
 None
 Further measures to achieve even higher standards
 None

Summary for Input Data



Plot Reference	009838 - HT - 2B4P CR - END		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - 2B4P Corner - END	
Plot Address	Plot , HT - 2B4P Corner - END, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	10.92	TER	11.57
Environmental	91 B	% DER < TER			5.62
CO ₂ Emissions (t/year)	0.88	DFEE	34.05	TFEE	36.37
Compliance Check	See BREL	% DFEE < TFEE			6.36
% DPER < TPER	4.43	DPER	57.70	TPER	60.37

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, End-Terrace
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	1st Storey:	18.02 m	40.36 m ²	2.38 m
		18.02 m	40.36 m ²	2.70 m

8.0 Living Area	15.22 m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	91.62	70.71	0.00	None	20.91	Enter Gross Area

9.1 Party Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
	Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	42.42	0.00	None

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	73.40
	1F - Timber	Plasterboard on timber frame	9.00	75.01

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
	Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	40.36	40.36	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Kappa	Area (m ²)
	Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	40.36

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	40.36

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	40.36

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	6.32	
LH Windows	Windows	External Wall	South	2.26	
LH Patio Doors	Patio Doors	External Wall	South	5.69	
RH Windows	Windows	External Wall	North	4.49	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	13.95	0.17	0.17 FES	No
E3 Sill	Independently assessed	10.21	0.01	0.01 FES	No
E4 Jamb	Independently assessed	30.90	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	9.68	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	18.02	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	8.34	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	9.68	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	10.17	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.34	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.34	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.34	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.34	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

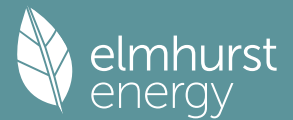
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	3

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>

Summary for Input Data



Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	4.00	m ³ /(h.m ²) @ 50 Pa
Test Method	Blower Door	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	12

24.0 Main Heating 1

Percentage of Heat	100.00	%
Database Ref. No.	18123	
Fuel Type	Mains gas	
Model Name	LOGIC CODE COMBI ESP1	
Manufacturer	Ideal Boilers	
Controls SAP Code	2110	
Delayed Start Stat	Yes	
Flue Type	Balanced	
Fan Assisted Flue	Yes	
Is MHS Pumped	Pump in heated space	
Heating Pump Age	2013 or later	
Heat Emitter	Radiators	
Flow Temperature	Unknown	
Boiler Interlock	Yes	
Combi boiler type	Standard Combi	
Combi keep hot type	None	

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	Main Heating 1
SAP Code	901
Flue Gas Heat Recovery System	Yes
Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
Cold Water Source	From mains
Bath Count	1

28.1 Showers

Summary for Input Data



Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID:

Brand Model:

Details:

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	45°	None Or Little		No	1.00		

34.0 Small-scale Hydro

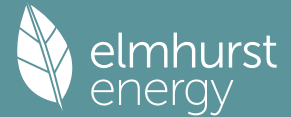
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

Lower cost measures
None

Further measures to achieve even higher standards
None

Summary for Input Data



Plot Reference	009838 - HT - 3B4P - END		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - 3B4P - END	
Plot Address	Plot , HT - 3B4P - END, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	10.83	TER	11.28
Environmental	91 B	% DER < TER			3.99
CO ₂ Emissions (t/year)	0.93	DFEE	33.89	TFEE	36.23
Compliance Check	See BREL	% DFEE < TFEE			6.44
% DPER < TPER	2.71	DPER	57.28	TPER	58.88

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, End-Terrace
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	18.69 m	43.16 m ²	2.38 m
	1st Storey:	18.69 m	43.16 m ²	2.70 m

8.0 Living Area	12.61 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	95.04	78.88	0.00	None	16.16	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	42.41	0.00	None

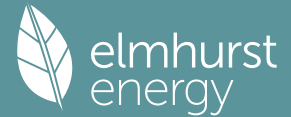
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	73.26
1F - Timber	Plasterboard on timber frame	9.00	113.29

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	43.16	43.16	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	43.16

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	43.16

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	43.16

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.26	
Rear Windows	Windows	External Wall	West	3.06	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	9.86	0.17	0.17 FES	No
E3 Sill	Independently assessed	6.12	0.01	0.01 FES	No
E4 Jamb	Independently assessed	21.75	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.35	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	18.69	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	10.35	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	8.34	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	10.17	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.34	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.34	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.34	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.34	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

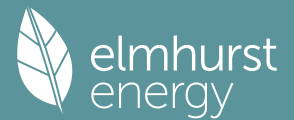
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	3

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>

Summary for Input Data



Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	4.00	m ³ /(h.m ²) @ 50 Pa
Test Method	Blower Door	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	12

24.0 Main Heating 1

Percentage of Heat	100.00	%
Database Ref. No.	18123	
Fuel Type	Mains gas	
Model Name	LOGIC CODE COMBI ESP1	
Manufacturer	Ideal Boilers	
Controls SAP Code	2110	
Delayed Start Stat	Yes	
Flue Type	Balanced	
Fan Assisted Flue	Yes	
Is MHS Pumped	Pump in heated space	
Heating Pump Age	2013 or later	
Heat Emitter	Radiators	
Flow Temperature	Unknown	
Boiler Interlock	Yes	
Combi boiler type	Standard Combi	
Combi keep hot type	None	

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	Main Heating 1
SAP Code	901
Flue Gas Heat Recovery System	Yes
Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
Cold Water Source	From mains
Bath Count	1

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

Summary for Input Data



28.2 Flue Gas Heat Recovery System

Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	30°	None Or Little		No	1.00		

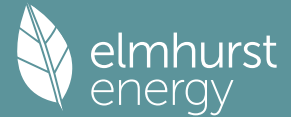
34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

- Lower cost measures
None
- Further measures to achieve even higher standards
None

Summary for Input Data



Plot Reference	009838 - HT - 3B4P - MID		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - 3B4P - MID	
Plot Address	Plot , HT - 3B4P - MID, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	9.69	TER	10.22
Environmental	92 A	% DER < TER			5.19
CO ₂ Emissions (t/year)	0.83	DFEE	28.90	TFEE	31.33
Compliance Check	See BREL	% DFEE < TFEE			7.78
% DPER < TPER	3.81	DPER	51.13	TPER	53.16

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Mid-Terrace
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	1st Storey:	10.32 m	43.02 m ²	2.38 m
		10.32 m	43.02 m ²	2.70 m

8.0 Living Area	12.61	m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	52.46	36.30	0.00	None	16.16	Enter Gross Area

9.1 Party Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
	Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	84.82	0.00	None

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	73.26
	1F - Timber	Plasterboard on timber frame	9.00	113.13

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
	Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	43.02	43.02	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Kappa	Area (m ²)
	Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	43.02

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	43.02

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	43.02

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.26	
Rear Windows	Windows	External Wall	West	3.06	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	9.86	0.17	0.17 FES	No
E3 Sill	Independently assessed	6.12	0.01	0.01 FES	No
E4 Jamb	Independently assessed	21.75	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.32	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	10.32	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	10.32	0.04	0.04 FES	No
E18 Party wall between dwellings	Independently assessed	20.34	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	16.68	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	16.68	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	16.68	0.00	0.00	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	1
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	2

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>

Summary for Input Data

Number of blocked chimneys	<input type="text" value="0"/>
Number of intermittent extract fans	<input type="text" value="0"/>
Number of passive vents	<input type="text" value="0"/>
Number of flueless gas fires	<input type="text" value="0"/>

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	<input type="text" value="4.00"/>	m ² /(h.m ²) @ 50 Pa
Test Method	<input type="text" value="Blower Door"/>	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	12

24.0 Main Heating 1

Percentage of Heat	<input type="text" value="100.00"/>	%
Database Ref. No.	<input type="text" value="18123"/>	
Fuel Type	<input type="text" value="Mains gas"/>	
Model Name	<input type="text" value="LOGIC CODE COMBI ESP1"/>	
Manufacturer	<input type="text" value="Ideal Boilers"/>	
Controls SAP Code	<input type="text" value="2110"/>	
Delayed Start Stat	<input type="text" value="Yes"/>	
Flue Type	<input type="text" value="Balanced"/>	
Fan Assisted Flue	<input type="text" value="Yes"/>	
Is MHS Pumped	<input type="text" value="Pump in heated space"/>	
Heating Pump Age	<input type="text" value="2013 or later"/>	
Heat Emitter	<input type="text" value="Radiators"/>	
Flow Temperature	<input type="text" value="Unknown"/>	
Boiler Interlock	<input type="text" value="Yes"/>	
Combi boiler type	<input type="text" value="Standard Combi"/>	
Combi keep hot type	<input type="text" value="None"/>	

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	<input type="text" value="Main Heating 1"/>
SAP Code	<input type="text" value="901"/>
Flue Gas Heat Recovery System	<input type="text" value="Yes"/>
Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>
Solar Panel	<input type="text" value="No"/>
Water use <= 125 litres/person/day	<input type="text" value="Yes"/>
Cold Water Source	<input type="text" value="From mains"/>
Bath Count	<input type="text" value="1"/>

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Summary for Input Data



Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

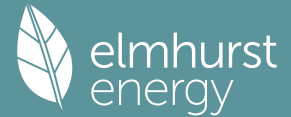
PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations
 Lower cost measures
 None
 Further measures to achieve even higher standards
 None

Summary for Input Data



Plot Reference	009838 - HT - 3B5P - END		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - 3B5P - END	
Plot Address	Plot , HT - 3B5P - END, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	10.54	TER	10.76
Environmental	91 B	% DER < TER			2.04
CO ₂ Emissions (t/year)	0.99	DFEE	33.03	TFEE	35.61
Compliance Check	See BREL	% DFEE < TFEE			7.24
% DPER < TPER	0.52	DPER	55.87	TPER	56.16

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, End-Terrace
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	19.59 m	46.92 m ²	2.38 m
	1st Storey:	19.59 m	46.92 m ²	2.70 m

8.0 Living Area	14.84 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	99.63	83.47	0.00	None	16.16	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	42.42	0.00	None

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	76.06
1F - Timber	Plasterboard on timber frame	9.00	112.32

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	46.92	46.92	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	46.92

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	46.92

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	46.92

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.26	
Rear Windows	Windows	External Wall	West	3.06	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	9.86	0.17	0.17 FES	No
E3 Sill	Independently assessed	6.12	0.01	0.01 FES	No
E4 Jamb	Independently assessed	21.75	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	8.34	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	19.59	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	11.25	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	8.34	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	10.17	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.34	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.34	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.34	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	11.25	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	3

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>

Summary for Input Data

Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

22.0 Lighting

No Fixed Lighting	<input type="text" value="No"/>				
	Name	Efficacy	Power	Capacity	Count
	Pendants/Batten	97.50	8.00	780.00	12

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

Summary for Input Data



28.2 Flue Gas Heat Recovery System

Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	30°	None Or Little		No	1.00		

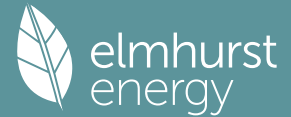
34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

- Lower cost measures
 - None
- Further measures to achieve even higher standards
 - None

Summary for Input Data



Plot Reference	009838 - HT - 3B5P - MID		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - 3B5P - MID	
Plot Address	Plot , HT - 3B5P - MID, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	9.46	TER	9.77
Environmental	92 A	% DER < TER			3.17
CO ₂ Emissions (t/year)	0.88	DFEE	28.34	TFEE	31.05
Compliance Check	See BREL	% DFEE < TFEE			8.72
% DPER < TPER	1.43	DPER	50.10	TPER	50.83

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Mid-Terrace
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	1st Storey:	11.22 m	46.78 m ²	2.38 m
		11.22 m	46.78 m ²	2.70 m

8.0 Living Area	14.84 m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	57.03	40.87	0.00	None	16.16	Enter Gross Area

9.1 Party Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
	Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	84.84	0.00	None

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	76.06
	1F - Timber	Plasterboard on timber frame	9.00	112.21

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
	Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	46.78	46.78	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Kappa	Area (m ²)
	Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	46.78

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.10	None	0.00	75.00	46.78

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	46.78

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.26	
Rear Windows	Windows	External Wall	West	3.06	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	9.86	0.17	0.17 FES	No
E3 Sill	Independently assessed	6.12	0.01	0.01 FES	No
E4 Jamb	Independently assessed	21.75	0.01	0.01 FES	No
E6 Intermediate floor within a dwelling	Independently assessed	11.22	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	11.22	0.04	0.04 FES	No
E18 Party wall between dwellings	Independently assessed	20.34	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	16.68	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	16.68	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	16.68	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	11.22	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	1
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	2

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>

Summary for Input Data

Number of blocked chimneys	<input type="text" value="0"/>
Number of intermittent extract fans	<input type="text" value="0"/>
Number of passive vents	<input type="text" value="0"/>
Number of flueless gas fires	<input type="text" value="0"/>

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	<input type="text" value="4.00"/>	m ² /(h.m ²) @ 50 Pa
Test Method	<input type="text" value="Blower Door"/>	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	12

24.0 Main Heating 1

Percentage of Heat	<input type="text" value="100.00"/>	%
Database Ref. No.	<input type="text" value="18123"/>	
Fuel Type	<input type="text" value="Mains gas"/>	
Model Name	<input type="text" value="LOGIC CODE COMBI ESP1"/>	
Manufacturer	<input type="text" value="Ideal Boilers"/>	
Controls SAP Code	<input type="text" value="2110"/>	
Delayed Start Stat	<input type="text" value="Yes"/>	
Flue Type	<input type="text" value="Balanced"/>	
Fan Assisted Flue	<input type="text" value="Yes"/>	
Is MHS Pumped	<input type="text" value="Pump in heated space"/>	
Heating Pump Age	<input type="text" value="2013 or later"/>	
Heat Emitter	<input type="text" value="Radiators"/>	
Flow Temperature	<input type="text" value="Unknown"/>	
Boiler Interlock	<input type="text" value="Yes"/>	
Combi boiler type	<input type="text" value="Standard Combi"/>	
Combi keep hot type	<input type="text" value="None"/>	

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	<input type="text" value="Main Heating 1"/>
SAP Code	<input type="text" value="901"/>
Flue Gas Heat Recovery System	<input type="text" value="Yes"/>
Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>
Solar Panel	<input type="text" value="No"/>
Water use <= 125 litres/person/day	<input type="text" value="Yes"/>
Cold Water Source	<input type="text" value="From mains"/>
Bath Count	<input type="text" value="1"/>

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Summary for Input Data



Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

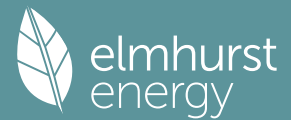
PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations
 Lower cost measures
 None
 Further measures to achieve even higher standards
 None

Summary for Input Data



Plot Reference	009838 - HT - Avocado - END		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Avocado - END	
Plot Address	Plot , HT - Avocado - END, Woolley Colliery Road		SAP Version	10.2

SAP Rating	90 B	DER	12.15	TER	13.01
Environmental	91 B	% DER < TER			6.61
CO ₂ Emissions (t/year)	0.85	DFEE	36.44	TFEE	39.37
Compliance Check	See BREL	% DFEE < TFEE			7.46
% DPER < TPER	5.25	DPER	64.57	TPER	68.15

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East	
Property Tenure	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, End-Terrace	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	2	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	0.00	kJ/m ² K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	Yes	
Smart gas meter fitted	Yes	

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	16.78 m	35.13 m ²	2.38 m
	1st Storey:	16.78 m	35.13 m ²	2.70 m

8.0 Living Area	28.16	m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	85.33	69.92	0.00	None	15.41	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	40.71	0.00	None

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	59.98
1F - Timber	Plasterboard on timber frame	9.00	83.16

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	35.13	35.13	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	35.13

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	35.13

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	35.13

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	4.50	
LH Window	Windows	External Wall	South	0.77	
Rear Windows	Windows	External Wall	West	2.30	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	9.19	0.17	0.17 FES	No
E3 Sill	Independently assessed	5.46	0.01	0.01 FES	No
E4 Jamb	Independently assessed	24.75	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	8.78	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	16.78	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	8.78	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	8.00	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	10.17	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.00	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.00	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.00	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.00	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	3

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>

Summary for Input Data



Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	7
Downlights	96.00	5.00	480.00	11

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

28.1 Showers

Summary for Input Data



Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID:

Brand Model:

Details:

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

One Dwelling:

Export Capable Meter?:

Connected To Dwelling:

Diverter:

Battery Capacity [kWh]:

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.20	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

Lower cost measures: None

Further measures to achieve even higher standards: None

Summary for Input Data



Plot Reference	009838 - HT - Avocado - MID		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - Avocado - MID	
Plot Address	Plot , HT - Avocado - MID, Woolley Colliery Road		SAP Version	10.2

SAP Rating	91 B	DER	10.83	TER	11.50
Environmental	92 A	% DER < TER			5.83
CO ₂ Emissions (t/year)	0.75	DFEE	29.71	TFEE	32.40
Compliance Check	See BREL	% DFEE < TFEE			8.28
% DPER < TPER	4.24	DPER	57.49	TPER	60.04

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Mid-Terrace
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	8.74 m	34.98 m ²	2.38 m
	1st Storey:	8.74 m	34.98 m ²	2.70 m

8.0 Living Area	28.02 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	44.44	29.80	0.00	None	14.64	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	81.41	0.00	None

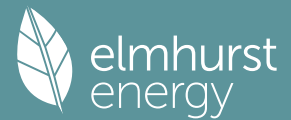
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	59.98
1F - Timber	Plasterboard on timber frame	9.00	83.00

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	34.98	34.98	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	34.98

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.10	None	0.00	75.00	34.98

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	34.98

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	4.50	
Rear Windows	Windows	External Wall	West	2.30	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	8.51	0.17	0.17 FES	No
E3 Sill	Independently assessed	4.78	0.01	0.01 FES	No
E4 Jamb	Independently assessed	22.50	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	8.74	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	8.74	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	8.74	0.04	0.04 FES	No
E18 Party wall between dwellings	Independently assessed	20.34	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	16.01	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	16.01	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	16.01	0.00	0.00	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

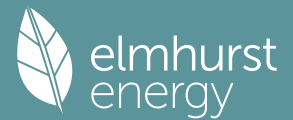
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	1
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	2

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>

Summary for Input Data



Number of blocked chimneys

Number of intermittent extract fans

Number of passive vents

Number of flueless gas fires

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	7
Downlights	96.00	5.00	480.00	11

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

Summary for Input Data



28.2 Flue Gas Heat Recovery System

Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.20	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

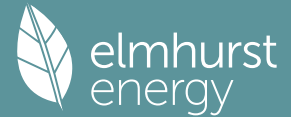
Lower cost measures

None

Further measures to achieve even higher standards

None

Summary for Input Data



Plot Reference	009838 - HT - Blueberry - END		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Blueberry - END	
Plot Address	Plot , HT - Blueberry - END, Woolley Colliery Road		SAP Version	10.2

SAP Rating	90 B	DER	11.79	TER	12.12
Environmental	90 B	% DER < TER			2.72
CO ₂ Emissions (t/year)	0.93	DFEE	35.67	TFEE	38.15
Compliance Check	See BREL	% DFEE < TFEE			6.51
% DPER < TPER	0.76	DPER	62.84	TPER	63.32

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, End-Terrace
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	18.80 m	39.58 m ²	2.38 m
	1st Storey:	18.80 m	39.58 m ²	2.70 m

8.0 Living Area	31.49 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	95.62	75.28	0.00	None	20.34	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	40.71	0.00	None

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	63.31
1F - Timber	Plasterboard on timber frame	9.00	81.43

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	39.58	39.58	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	39.58

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	39.58

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	39.58

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.72	
RH Window	Windows	External Wall	North	4.49	
LH Windows	Windows	External Wall	South	2.29	
LH Patio Doors	Patio Doors	External Wall	South	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	12.03	0.17	0.17 FES	No
E3 Sill	Independently assessed	8.29	0.01	0.01 FES	No
E4 Jamb	Independently assessed	33.45	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.80	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	18.80	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	5.63	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	13.18	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	20.34	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.00	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.00	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.00	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.00	0.07	0.07 FES - Perp	No
E17 Corner (inverted - internal area greater than external area)	Independently assessed	10.17	-0.08	-0.08 FES	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

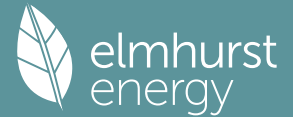
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	3

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>

Summary for Input Data



Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	8
Downlights	96.00	5.00	480.00	11

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

Summary for Input Data



28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID	<input type="text" value="0"/>
Brand Model	<input type="text"/>
Details	<input type="text"/>

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	<input type="text" value="None"/>
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32.0 Photovoltaic Unit

Export Capable Meter?	<input type="text" value="Yes"/>
Connected To Dwelling	<input type="text" value="Yes"/>
Diverter	<input type="text" value="No"/>
Battery Capacity [kWh]	<input type="text" value="0.00"/>

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.20	East	45°	None Or Little		No	1.00		

34.0 Small-scale Hydro

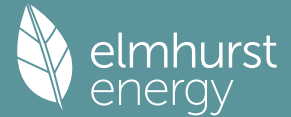
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Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

Lower cost measures	None
Further measures to achieve even higher standards	None

Summary for Input Data



Plot Reference	009838 - HT - Chestnut - SEMI		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Chestnut - SEMI	
Plot Address	Plot , HT - Chestnut - SEMI, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	10.67	TER	11.28
Environmental	91 B	% DER < TER			5.41
CO ₂ Emissions (t/year)	0.91	DFEE	33.40	TFEE	36.28
Compliance Check	See BREL	% DFEE < TFEE			7.92
% DPER < TPER	4.28	DPER	56.35	TPER	58.87

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Semi-Detached
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	18.58 m	42.80 m ²	2.38 m
	1st Storey:	18.58 m	42.80 m ²	2.70 m

8.0 Living Area	12.28 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	94.48	76.83	0.00	None	17.65	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	42.99	0.00	None

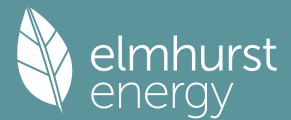
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	78.30
1F - Timber	Plasterboard on timber frame	9.00	112.64

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	42.80	42.80	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	42.80

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	42.80

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	42.80

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.26	
LH Window	Windows	External Wall	South	1.49	
Rear Windows	Windows	External Wall	West	3.06	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	11.23	0.17	0.17 FES	No
E3 Sill	Independently assessed	7.49	0.01	0.01 FES	No
E4 Jamb	Independently assessed	26.10	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.13	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	18.58	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	10.13	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	8.45	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	10.17	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.45	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.45	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.45	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.45	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="4"/>

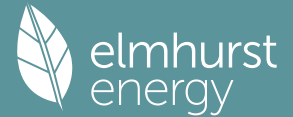
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	3

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>

Summary for Input Data



Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	7
Downlights	96.00	5.00	480.00	11

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

28.1 Showers

Summary for Input Data



Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID:

Brand Model:

Details:

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

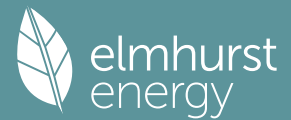
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

Lower cost measures
None

Further measures to achieve even higher standards
None

Summary for Input Data



Plot Reference	009838 - HT - Clover - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Clover - DET	
Plot Address	Plot , HT - Clover - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	91 B	DER	11.62	TER	11.95
Environmental	90 B	% DER < TER			2.76
CO ₂ Emissions (t/year)	1.04	DFEE	37.84	TFEE	40.60
Compliance Check	See BREL	% DFEE < TFEE			6.79
% DPER < TPER	1.41	DPER	61.56	TPER	62.44

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Detached
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
Ground floor:	27.52 m	44.85 m ²	2.38 m
1st Storey:	27.52 m	44.85 m ²	2.70 m

8.0 Living Area	16.91 m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	139.94	117.59	0.00	None	22.35	Enter Gross Area

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	77.83
	1F - Timber	Plasterboard on timber frame	9.00	105.89

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
	Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	44.85	44.85	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Kappa	Area (m ²)
	Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	44.85

11.0 Heat Loss Floors	Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
	Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	44.85

11.2 Internal Floors

Summary for Input Data



Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	44.85

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	7.05	
RH Window	Windows	External Wall	North	4.49	
LH Windows	Windows	External Wall	South	2.26	
LH Patio Doors	Patio Doors	External Wall	South	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	14.30	0.17	0.17 FES	No
E3 Sill	Independently assessed	10.23	0.01	0.01 FES	No
E4 Jamb	Independently assessed	34.20	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.61	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	27.52	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	16.91	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	10.61	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	20.34	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	16.91	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

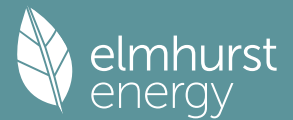
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>
Number of blocked chimneys	<input type="text" value="0"/>
Number of intermittent extract fans	<input type="text" value="0"/>

Summary for Input Data



Number of passive vents

Number of flueless gas fires

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	7
Downlights	96.00	5.00	480.00	15

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

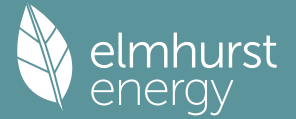
28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID

Summary for Input Data



Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	45°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

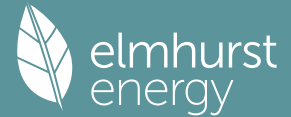
Lower cost measures

None

Further measures to achieve even higher standards

None

Summary for Input Data



Plot Reference	009838 - HT - Clover - SEMI		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Clover - SEMI	
Plot Address	Plot , HT - Clover - SEMI, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	10.63	TER	10.96
Environmental	91 B	% DER < TER			3.01
CO ₂ Emissions (t/year)	0.95	DFEE	33.52	TFEE	36.01
Compliance Check	See BREL	% DFEE < TFEE			6.92
% DPER < TPER	1.51	DPER	56.22	TPER	57.08

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Semi-Detached
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	19.03 m	44.71 m ²	2.38 m
	1st Storey:	19.03 m	44.71 m ²	2.70 m

8.0 Living Area	16.85 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	96.77	74.42	0.00	None	22.35	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	42.99	0.00	None

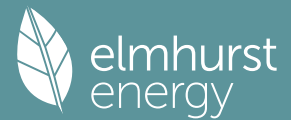
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	77.73
1F - Timber	Plasterboard on timber frame	9.00	105.57

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	44.71	44.71	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	44.71

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	44.71

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	44.71

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	7.05	
RH Window	Windows	External Wall	North	4.49	
LH Windows	Windows	External Wall	South	2.26	
LH Patio Doors	Patio Doors	External Wall	South	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	14.30	0.17	0.17 FES	No
E3 Sill	Independently assessed	10.23	0.01	0.01 FES	No
E4 Jamb	Independently assessed	34.20	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.58	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	19.03	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	8.46	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	10.58	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	10.17	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	10.17	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.46	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.46	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	8.46	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.46	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

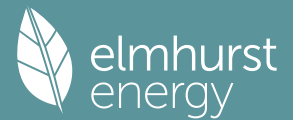
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>

Summary for Input Data



Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	7
Downlights	96.00	5.00	480.00	15

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

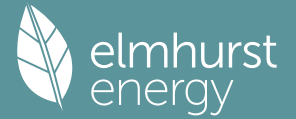
Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

Summary for Input Data



28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID:

Brand Model:

Details:

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder:

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	45°	None Or Little		No	1.00		

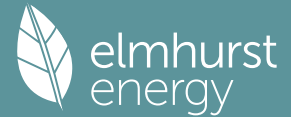
34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

- Lower cost measures: None
- Further measures to achieve even higher standards: None

Summary for Input Data



Plot Reference	009838 - HT - Dandelion - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - Dandelion - DET	
Plot Address	Plot , HT - Dandelion - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	91 B	DER	11.93	TER	12.29
Environmental	90 B	% DER < TER			2.93
CO ₂ Emissions (t/year)	1.12	DFEE	39.44	TFEE	42.52
Compliance Check	See BREL	% DFEE < TFEE			7.23
% DPER < TPER	1.65	DPER	63.25	TPER	64.31

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East	
Property Tenure	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Detached	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	2	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	0.00	kJ/m ² K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	Yes	
Smart gas meter fitted	Yes	

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	27.97 m	46.76 m ²	2.38 m
	1st Storey:	27.97 m	46.76 m ²	2.70 m

8.0 Living Area	37.46	m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	143.23	124.00	0.00	None	19.23	Enter Gross Area

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	71.16
1F - Timber	Plasterboard on timber frame	9.00	115.67
GF - Block	Dense block, plasterboard on dabs	75.00	11.23

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	46.76	46.76	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	46.76

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	46.76

11.2 Internal Floors	
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Summary for Input Data



Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	46.76

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.26	
LH Window	Windows	External Wall	South	0.77	
Rear Windows	Windows	External Wall	West	3.88	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	
RH Window	Windows	External Wall	North	0.77	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	12.25	0.17	0.17 FES	No
E3 Sill	Independently assessed	8.18	0.01	0.01 FES	No
E4 Jamb	Independently assessed	28.65	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	11.06	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	27.97	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	11.06	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	16.91	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	20.34	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	16.91	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

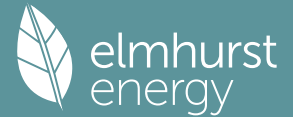
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>
Number of blocked chimneys	<input type="text" value="0"/>

Summary for Input Data



Number of intermittent extract fans

Number of passive vents

Number of flueless gas fires

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	10
Downlights	96.00	5.00	480.00	14

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Summary for Input Data



Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

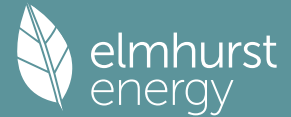
PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.60	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations
 Lower cost measures
 None
 Further measures to achieve even higher standards
 None

Summary for Input Data



Plot Reference	009838 - HT - Eucalyptus - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - Eucalyptus - DET	
Plot Address	Plot , HT - Eucalyptus - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	11.19	TER	11.41
Environmental	90 B	% DER < TER			1.93
CO ₂ Emissions (t/year)	1.1	DFEE	37.37	TFEE	39.89
Compliance Check	See BREL	% DFEE < TFEE			6.30
% DPER < TPER	0.92	DPER	59.07	TPER	59.62

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	North	
Property Tenure	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Detached	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	2	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	0.00	kJ/m ² K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	Yes	
Smart gas meter fitted	Yes	

	Heat Loss Perimeter	Internal Floor Area	Unheated Space Floor Area	Average Storey Height
Ground floor:	29.32 m	47.30 m ²	3.19 m ²	2.72 m
1st Storey:	29.32 m	50.49 m ²		2.36 m

8.0 Living Area	11.59	m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	149.09	130.57	0.00	None	18.52	Enter Gross Area

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	71.97
1F - Timber	Plasterboard on timber frame	9.00	111.16
GF - Block	Dense block, plasterboard on dabs	75.00	17.41

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	50.49	50.49	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	47.30

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	47.30
Floor Above Porch	Exposed Floor - Timber	+1	Timber exposed floor, insulation between joists	0.15	None	0.00	20.00	3.19

Summary for Input Data



11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	47.30

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	North	2.15	
Front Window	Windows	External Wall	North	5.26	
LH Window	Windows	External Wall	East	0.77	
Rear Windows	Windows	External Wall	South	3.88	
Rear Patio Doors	Patio Doors	External Wall	South	5.69	
RH Window	Windows	External Wall	West	0.77	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	11.91	0.17	0.17 FES	No
E3 Sill	Independently assessed	8.18	0.01	0.01 FES	No
E4 Jamb	Independently assessed	28.65	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	11.06	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	25.61	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	18.26	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	11.06	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	23.06	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	18.26	0.07	0.07 FES - Perp	No
E20 Exposed floor (normal)	Table K1 - Default	3.71	0.32	0.32	No
E21 Exposed floor (inverted)	Table K1 - Default	3.71	0.32	0.32	No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	2.72	-0.08	-0.08 FES	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

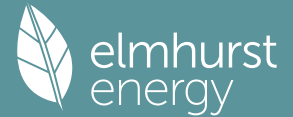
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>

Summary for Input Data



Number of flues attached to other heater

Number of blocked chimneys

Number of intermittent extract fans

Number of passive vents

Number of flueless gas fires

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	9
Downlights	96.00	5.00	480.00	14

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To

Summary for Input Data



Main Bathroom	Combi boiler or unvented hot water system	8.00	No
En-Suite	Combi boiler or unvented hot water system	8.00	No

28.2 Flue Gas Heat Recovery System

Database ID	0
Brand Model	
Details	

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

None

32.0 Photovoltaic Unit

One Dwelling	
Export Capable Meter?	Yes
Connected To Dwelling	Yes
Diverter	No
Battery Capacity [kWh]	0.00

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.00	East	45°	None Or Little		No	1.00		

34.0 Small-scale Hydro

None

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

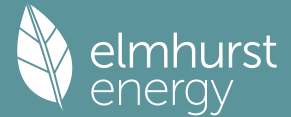
Lower cost measures

None

Further measures to achieve even higher standards

None

Summary for Input Data



Plot Reference	009838 - HT - Jarrah - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - Jarrah - DET	
Plot Address	Plot , HT - Jarrah - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	10.76	TER	11.02
Environmental	90 B	% DER < TER			2.36
CO ₂ Emissions (t/year)	1.21	DFEE	37.78	TFEE	40.82
Compliance Check	See BREL	% DFEE < TFEE			7.45
% DPER < TPER	1.34	DPER	56.85	TPER	57.62

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East	
Property Tenture	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Detached	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	2	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	0.00	kJ/m ² K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	Yes	
Smart gas meter fitted	Yes	

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	31.79 m	56.09 m ²	2.38 m
	1st Storey:	31.79 m	56.09 m ²	2.70 m

8.0 Living Area	15.25	m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	161.67	142.18	0.00	None	19.49	Enter Gross Area

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	78.35
1F - Timber	Plasterboard on timber frame	9.00	151.69
GF - Block	Dense block, plasterboard on dabs	75.00	24.61

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	56.09	56.09	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	56.09

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	56.09

11.2 Internal Floors

Summary for Input Data



Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	56.09

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRG, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRG, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.52	
LH Window	Windows	External Wall	South	0.77	
Rear Windows	Windows	External Wall	West	3.88	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	
RH Window	Windows	External Wall	North	0.77	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	12.25	0.17	0.17 FES	No
E3 Sill	Independently assessed	8.18	0.01	0.01 FES	No
E4 Jamb	Independently assessed	29.40	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	13.13	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	31.79	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	9.47	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	22.33	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	25.43	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	18.66	0.07	0.07 FES - Perp	No
E17 Corner (inverted - internal area greater than external area)	Independently assessed	5.09	-0.08	-0.08 FES	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

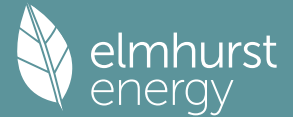
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>

Summary for Input Data



Number of blocked chimneys

Number of intermittent extract fans

Number of passive vents

Number of flueless gas fires

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	9
Downlights	96.00	5.00	480.00	13

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

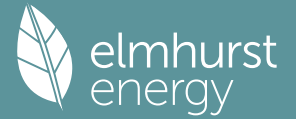
Cold Water Source

Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

Summary for Input Data



28.2 Flue Gas Heat Recovery System

Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.00	East	30°	None Or Little		No	1.00		

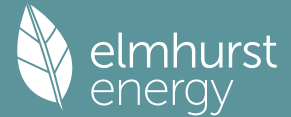
34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

- Lower cost measures
 - None
- Further measures to achieve even higher standards
 - None

Summary for Input Data



Plot Reference	009838 - HT - Lavender - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Lavender - DET	
Plot Address	Plot , HT - Lavender - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	11.87	TER	11.93
Environmental	89 B	% DER < TER			0.50
CO ₂ Emissions (t/year)	1.38	DFEE	44.31	TFEE	49.78
Compliance Check	See BREL	% DFEE < TFEE			10.99
% DPER < TPER	0.46	DPER	62.65	TPER	62.94

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Detached
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K

7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

	Heat Loss Perimeter	Internal Floor Area	Unheated Space Floor Area	Average Storey Height
Ground floor:	36.30 m	55.61 m ²	19.51 m ²	2.72 m
1st Storey:	32.25 m	59.32 m ²		2.36 m

8.0 Living Area	44.85 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	146.40	124.41	0.00	None	21.99	Enter Gross Area
Garage Wall (Solid)	Solid Wall	Solid wall : plasterboard on dabs, 200 mm dense block, insulated externally	0.28	150.00	17.25	17.25	0.35	Garage Single 1 Outside	0.00	Enter Gross Area
Garage Wall (Cavity)	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	7.78	7.78	0.35	Garage Single 1 Outside	0.00	Enter Gross Area

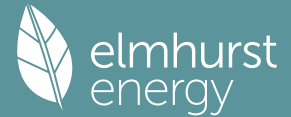
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	89.16
1F - Timber	Plasterboard on timber frame	9.00	140.23

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	75.12	75.12	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	39.81

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	55.61
Floor Above Garage	Exposed Floor - Timber	+1	Timber exposed floor, insulation between joists	0.14	None	0.00	20.00	19.51

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	39.81

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	7.30	
Rear Windows	Windows	External Wall	West	5.37	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	
RH Windows	Windows	External Wall	North	0.77	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	14.29	0.17	0.17 FES	No
E3 Sill	Independently assessed	10.23	0.01	0.01 FES	No
E4 Jamb	Independently assessed	33.75	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	12.00	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	19.74	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	23.55	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	20.79	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	24.75	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	17.91	0.07	0.07 FES - Perp	No
E5 Ground floor (normal)	Independently assessed	6.39	0.11	0.11 FES - Garage	No
E20 Exposed floor (normal)	Independently assessed	9.24	0.10	0.10 FES	No
E21 Exposed floor (inverted)	Independently assessed	9.24	0.02	0.02 FES	No
E17 Corner (inverted - internal area greater than external area)	Independently assessed	2.36	-0.08	-0.08 FES	No
E24 Eaves (insulation at ceiling level - inverted)	Table K1 - Default	8.86	0.15	0.15	No
E17 Corner (inverted - internal area greater than external area)	Table K1 - Default	2.72	0.00	0.00	No

19.0 Mechanical Ventilation

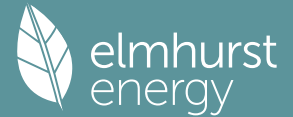
Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

Summary for Input Data



20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	0
Number of open flues	0
Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

No

22.0 Pressure Testing

Yes

Designed AP₅₀ 4.00 m³/(h.m²) @ 50 Pa

Test Method Blower Door

22.0 Lighting

No Fixed Lighting No

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	10
Downlights	96.00	5.00	480.00	13

24.0 Main Heating 1

Database	Database
Percentage of Heat	100.00 %
Database Ref. No.	18123
Fuel Type	Mains gas
Model Name	LOGIC CODE COMBI ESP1
Manufacturer	Ideal Boilers
Controls SAP Code	2110
Delayed Start Stat	Yes
Flue Type	Balanced
Fan Assisted Flue	Yes
Is MHS Pumped	Pump in heated space
Heating Pump Age	2013 or later
Heat Emitter	Radiators
Flow Temperature	Unknown
Boiler Interlock	Yes
Combi boiler type	Standard Combi
Combi keep hot type	None

25.0 Main Heating 2

None

26.0 Heat Networks

None

27.0 Secondary Heating

None

28.0 Water Heating

Water Heating	Main Heating 1
SAP Code	901
Flue Gas Heat Recovery System	Yes
Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No

Summary for Input Data



Water use <= 125 litres/person/day

Cold Water Source

Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.40	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

None

Summary for Input Data



Plot Reference	009838 - HT - Linden CR - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Linden CR - DET	
Plot Address	Plot , HT - Linden CR - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	92 A	DER	10.57	TER	10.86
Environmental	90 B	% DER < TER			2.67
CO ₂ Emissions (t/year)	1.26	DFEE	38.30	TFEE	41.93
Compliance Check	See BREL	% DFEE < TFEE			8.66
% DPER < TPER	1.61	DPER	55.86	TPER	56.77

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Detached
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	1st Storey:	32.02 m	59.10 m ²	2.38 m
		32.02 m	59.10 m ²	2.70 m

8.0 Living Area	12.61 m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	162.83	135.97	0.00	None	26.86	Enter Gross Area

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	87.63
	1F - Timber	Plasterboard on timber frame	9.00	153.09
	GF - Block	Dense block, plasterboard on dabs	75.00	29.70

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
	Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	59.10	59.10	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Kappa	Area (m ²)
	Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	59.10

11.0 Heat Loss Floors	Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
	Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	59.10

11.2 Internal Floors

Summary for Input Data



Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	59.10

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	9.75	
LH Window	Windows	External Wall	South	0.77	
Rear Windows	Windows	External Wall	West	3.78	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	
RH Window	Windows	External Wall	North	4.01	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	17.03	0.17	0.17 FES	No
E3 Sill	Independently assessed	12.96	0.01	0.01 FES	No
E4 Jamb	Independently assessed	44.40	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	16.91	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	32.02	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	15.21	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	16.81	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	30.51	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	15.11	0.07	0.07 FES - Perp	No
E17 Corner (inverted - internal area greater than external area)	Independently assessed	10.17	-0.08	-0.08 FES	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

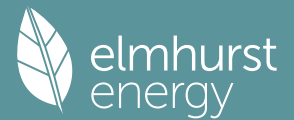
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>

Summary for Input Data



Number of blocked chimneys

Number of intermittent extract fans

Number of passive vents

Number of flueless gas fires

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	12
Downlights	96.00	5.00	480.00	13

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

Summary for Input Data



28.2 Flue Gas Heat Recovery System

Database ID

Brand Model

Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.00	East	30°	None Or Little		No	1.00		

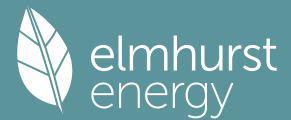
34.0 Small-scale Hydro

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

- Lower cost measures
 - None
- Further measures to achieve even higher standards
 - None

Summary for Input Data



Plot Reference	009838 - HT - Macadamia - SEMI		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Macadamia - SEMI	
Plot Address	Plot , HT - Macadamia - SEMI, Woolley Colliery Road		SAP Version	10.2

SAP Rating	91 B	DER	10.40	TER	11.05
Environmental	90 B	% DER < TER			5.88
CO ₂ Emissions (t/year)	1.13	DFEE	33.61	TFEE	36.31
Compliance Check	See BREL	% DFEE < TFEE			7.43
% DPER < TPER	3.81	DPER	55.67	TPER	57.87

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenture	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Semi-Detached
2.0 Number of Storeys	3
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K

7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
Ground floor:	17.34 m	37.54 m ²	2.38 m
1st Storey:	17.34 m	37.54 m ²	2.70 m
2nd Storey:	17.34 m	37.54 m ²	2.70 m

8.0 Living Area	12.44 m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	135.01	114.77	0.00	None	20.24	Enter Gross Area

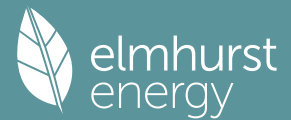
9.1 Party Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
	Party Wall	Filled Cavity with Edge Sealing	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	64.94	0.00	None

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	74.97
	1F - Timber	Plasterboard on timber frame	9.00	62.21
	2F - Timber	Plasterboard on timber frame	9.00	68.74

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings Area
	Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	37.54	37.54	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Kappa	Area (m ²)
	Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	37.54

Summary for Input Data



First Floor +1 Plasterboard ceiling, carpeted chipboard floor 9.00 37.54

11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	37.54

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	37.54
Second Floor	+2	Plasterboard ceiling, carpeted chipboard floor	18.00	37.54

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			1.20
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	6.85	
LH Window	Windows	External Wall	South	1.44	
Rear Windows	Windows	External Wall	West	4.11	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	

14.0 Conservatory

15.0 Draught Proofing

%

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	12.62	0.17	0.17 FES	No
E3 Sill	Independently assessed	8.89	0.01	0.01 FES	No
E4 Jamb	Independently assessed	38.70	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	9.00	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	34.68	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	9.00	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	8.34	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	15.57	0.06	0.06 FES	No
E18 Party wall between dwellings	Independently assessed	15.57	0.03	0.03 FES	No
P1 Party wall - Ground floor	Independently assessed	8.34	0.12	0.12 FES	No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	8.34	0.06	0.06 FES	No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	16.68	0.00	0.00	No
E5 Ground floor (normal)	Independently assessed	8.34	0.07	0.07 FES - Perp	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

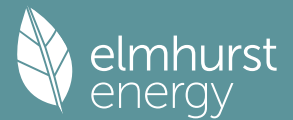
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys

Summary for Input Data



Number of open flues	0
Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	9
Downlights	96.00	5.00	480.00	13

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Summary for Input Data



Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID	<input type="text" value="0"/>
Brand Model	<input type="text"/>
Details	<input type="text"/>

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

One Dwelling	
Export Capable Meter?	<input type="text" value="Yes"/>
Connected To Dwelling	<input type="text" value="Yes"/>
Diverter	<input type="text" value="No"/>
Battery Capacity [kWh]	<input type="text" value="0.00"/>

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
1.20	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

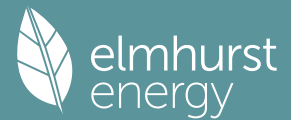
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

Lower cost measures
None

Further measures to achieve even higher standards
None

Summary for Input Data



Plot Reference	009838 - HT - Neem - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - Neem - DET	
Plot Address	Plot , HT - Neem - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	93 A	DER	10.34	TER	10.66
Environmental	90 B	% DER < TER			3.00
CO ₂ Emissions (t/year)	1.22	DFEE	38.35	TFEE	41.36
Compliance Check	See BREL	% DFEE < TFEE			7.29
% DPER < TPER	2.37	DPER	54.46	TPER	55.78

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East	
Property Tenure	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Detached	
2.0 Number of Storeys	2	
3.0 Date Built	2025	
4.0 Sheltered Sides	2	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	219.26	kJ/m ² K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	Yes	
Smart gas meter fitted	Yes	

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	32.70 m	61.14 m ²	2.38 m
	1st Storey:	32.70 m	61.14 m ²	2.70 m

8.0 Living Area	13.00	m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	166.26	141.26	0.00	None	25.00	Enter Gross Area

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	87.73
1F - Timber	Plasterboard on timber frame	9.00	151.25
GF - Block	Dense block, plasterboard on dabs	75.00	31.13

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	61.14	61.14	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	61.14

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	61.14

11.2 Internal Floors

Summary for Input Data



Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	61.14

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30
Rear/Side Doors	Manufacturer	Half Glazed Door	Double Low-E Soft 0.05			0.63		0.70	1.50

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	9.75	
Rear Door	Rear/Side Doors	External Wall	West	2.15	
Rear Windows	Windows	External Wall	West	4.55	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	15.31	0.17	0.17 FES	No
E3 Sill	Independently assessed	10.22	0.01	0.01 FES	No
E4 Jamb	Independently assessed	36.90	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	18.03	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	32.70	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	16.89	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	15.80	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	30.51	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	14.66	0.07	0.07 FES - Perp	No
E17 Corner (inverted - internal area greater than external area)	Independently assessed	10.17	-0.08	-0.08 FES	No

Y-value W/m²K

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

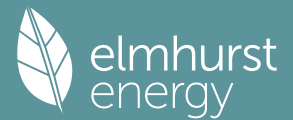
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>

Summary for Input Data



Number of flues attached to other heater	<input type="text" value="0"/>
Number of blocked chimneys	<input type="text" value="0"/>
Number of intermittent extract fans	<input type="text" value="0"/>
Number of passive vents	<input type="text" value="0"/>
Number of flueless gas fires	<input type="text" value="0"/>

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	<input type="text" value="4.00"/>	m ² /(h.m ²) @ 50 Pa
Test Method	<input type="text" value="Blower Door"/>	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	11
Downlights	96.00	5.00	480.00	13

24.0 Main Heating 1

Percentage of Heat	<input type="text" value="100.00"/>	%
Database Ref. No.	<input type="text" value="18123"/>	
Fuel Type	<input type="text" value="Mains gas"/>	
In Winter	<input type="text" value="89.00"/>	
In Summer	<input type="text" value="87.30"/>	
Model Name	<input type="text" value="LOGIC CODE COMBI ESP1"/>	
Manufacturer	<input type="text" value="Ideal Boilers"/>	
System Type	<input type="text" value="Combi boiler"/>	
Controls SAP Code	<input type="text" value="2110"/>	
Controls description	<input type="text" value="Time and temperature zone control by arrangement"/>	
Delayed Start Stat	<input type="text" value="Yes"/>	
Flue Type	<input type="text" value="Balanced"/>	
Fan Assisted Flue	<input type="text" value="Yes"/>	
Is MHS Pumped	<input type="text" value="Pump in heated space"/>	
Heating Pump Age	<input type="text" value="2013 or later"/>	
Heat Emitter	<input type="text" value="Radiators"/>	
Flow Temperature	<input type="text" value="Unknown"/>	
Boiler Interlock	<input type="text" value="Yes"/>	
Combi boiler type	<input type="text" value="Standard Combi"/>	
Combi keep hot type	<input type="text" value="None"/>	

25.0 Main Heating 2

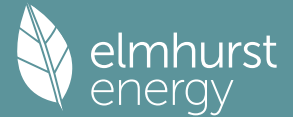
26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	<input type="text" value="Main Heating 1"/>
SAP Code	<input type="text" value="901"/>
Flue Gas Heat Recovery System	<input type="text" value="Yes"/>
Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>
Solar Panel	<input type="text" value="No"/>
Water use <= 125 litres/person/day	<input type="text" value="Yes"/>

Summary for Input Data



Cold Water Source
 Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID
 Brand Model
 Details

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?
 Connected To Dwelling
 Diverter
 Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.40	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Recommendations

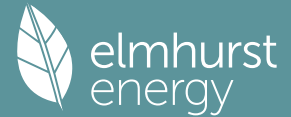
Lower cost measures

None

Further measures to achieve even higher standards

None

Summary for Input Data



Plot Reference	009838 - HT - Poppy - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed - As	Plot Type Ref	HT - Poppy - DET	
Plot Address	Plot , HT - Poppy - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	93 A	DER	10.30	TER	10.60
Environmental	90 B	% DER < TER			2.83
CO ₂ Emissions (t/year)	1.28	DFEE	39.15	TFEE	43.30
Compliance Check	See BREL	% DFEE < TFEE			9.58
% DPER < TPER	2.62	DPER	54.19	TPER	55.65

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Detached
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

	Heat Loss Perimeter	Internal Floor Area	Unheated Space Floor Area	Average Storey Height
Ground floor:	29.99 m	51.90 m ²	19.51 m ²	2.72 m
1st Storey:	36.52 m	71.41 m ²		2.36 m

8.0 Living Area	11.72 m ²
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Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	151.67	131.22	0.00	None	20.45	Enter Gross Area
Garage Wall (Solid)	Solid Wall	Solid wall : plasterboard on dabs, 200 mm dense block, insulated externally	0.28	150.00	16.27	16.27	0.25	Garage Single 2 Outside	0.00	Enter Gross Area

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
GF - Timber	Plasterboard on timber frame	9.00	96.18
1F - Timber	Plasterboard on timber frame	9.00	155.67
GF - Block	Dense block, plasterboard on dabs	75.00	15.72

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	71.41	71.41	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	51.90

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	51.90

Summary for Input Data



Floor Above Garage Exposed Floor - Timber +1 Timber exposed floor, insulation between joists 0.14 None 0.00 20.00 19.51

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	51.90

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	7.30	
Rear Windows	Windows	External Wall	West	3.83	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	
RH Window	Windows	External Wall	North	0.77	

14.0 Conservatory

15.0 Draught Proofing

%

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	12.92	0.17	0.17 FES	No
E3 Sill	Independently assessed	8.85	0.01	0.01 FES	No
E4 Jamb	Independently assessed	29.25	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.84	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	24.02	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	13.73	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	22.79	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	25.07	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	13.18	0.07	0.07 FES - Perp	No
E5 Ground floor (normal)	Independently assessed	5.98	0.11	0.11 FES - Garage	No
E20 Exposed floor (normal)	Independently assessed	12.51	0.10	0.10 FES	No
E21 Exposed floor (inverted)	Independently assessed	5.98	0.02	0.02 FES	No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	4.73	-0.08	-0.08 FES	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	1
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	3

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>

Summary for Input Data

Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	10
Downlights	96.00	5.00	480.00	13

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

Model Name

Manufacturer

Controls SAP Code

Delayed Start Stat

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Boiler Interlock

Combi boiler type

Combi keep hot type

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

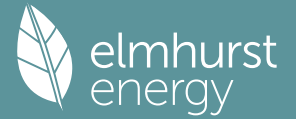
Solar Panel

Water use <= 125 litres/person/day

Cold Water Source

Bath Count

Summary for Input Data



28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID	<input type="text" value="0"/>
Brand Model	<input type="text"/>
Details	<input type="text"/>

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	<input type="text" value="None"/>
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32.0 Photovoltaic Unit

Export Capable Meter?	<input type="text" value="Yes"/>
Connected To Dwelling	<input type="text" value="Yes"/>
Diverter	<input type="text" value="No"/>
Battery Capacity [kWh]	<input type="text" value="0.00"/>

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.80	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

<input type="text" value="None"/>

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Recommendations

- Lower cost measures
None
- Further measures to achieve even higher standards
None

Summary for Input Data



Plot Reference	009838 - HT - Primrose - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - Primrose - DET	
Plot Address	Plot , HT - Primrose - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	91 B	DER	10.62	TER	10.88
Environmental	90 B	% DER < TER			2.39
CO ₂ Emissions (t/year)	1.38	DFEE	38.26	TFEE	39.43
Compliance Check	See BREL	% DFEE < TFEE			2.97
% DPER < TPER	1.18	DPER	56.33	TPER	57.01

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenture	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Detached
2.0 Number of Storeys	3
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	0.00 kJ/m ² K

7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
Ground floor:	27.75 m	45.81 m ²	2.38 m
1st Storey:	27.75 m	45.81 m ²	2.70 m
2nd Storey:	27.75 m	42.41 m ²	2.32 m

8.0 Living Area	34.56 m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	160.35	141.42	0.00	None	18.93	Enter Gross Area
	Spandrel Wall	Timber Frame	Timber framed wall (one layer of plasterboard)	0.23	9.00	25.87	25.87	0.00	None	0.00	Enter Gross Area
	Stud Wall	Timber Frame	Timber framed wall (one layer of plasterboard)	0.12	9.00	7.16	7.16	0.00	None	0.00	Enter Gross Area
	Lightwell Wall	Timber Frame	Timber framed wall (one layer of plasterboard)	0.31	9.00	0.96	0.96	0.00	None	0.00	Enter Gross Area

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	64.55
	1F - Timber	Plasterboard on timber frame	9.00	116.59
	2F - Timber	Plasterboard on timber frame	9.00	60.51
	GF - Block	Dense block, plasterboard on dabs	75.00	10.90

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
	Sloped Roof	External Slope	Plasterboard, insulated slope	0.16	9.00	26.70	23.31	None	0.00	Enter Gross Area	3.39
	Stud Ceiling	External Slope	Plasterboard, insulated slope	0.12	9.00	3.40	3.40	None	0.00	Enter Gross Area	0.00
	Cold Roof	External Plane	Plasterboard, insulated at ceiling level	0.09	9.00	22.99	22.99	None	0.00	Enter Gross Area	0.00
	Lightwell Roof	External Slope	Plasterboard, insulated slope	0.09	9.00	0.76	0.76	None	0.00	Enter Gross Area	0.00

Summary for Input Data

10.2 Internal Ceilings

Description	Storey	Construction	Kappa	Area (m ²)
Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	45.81
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	9.00	42.41

11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	45.81

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	45.81
Second Floor	+2	Plasterboard ceiling, carpeted chipboard floor	18.00	42.41

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Roof Windows	Manufacturer	Roof Window	Triple Low-E Soft 0.05			0.49		0.70	1.10
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	5.21	
LH Window	Windows	External Wall	South	0.72	
Rear Windows	Windows	External Wall	West	3.68	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Roof Windows	Roof Windows	Sloped Roof	East	2.63	45
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	
RH Window	Windows	External Wall	North	0.77	
Rear Roof Windows	Roof Windows	Sloped Roof	West	0.76	45

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

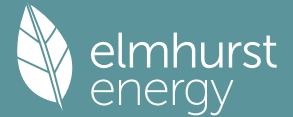
Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	12.25	0.17	0.17 FES	No
E3 Sill	Independently assessed	8.18	0.01	0.01 FES	No
E4 Jamb	Independently assessed	26.25	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	10.84	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	55.49	0.01	0.01 FES	No
E11 Eaves (insulation at rafter level)	Independently assessed	10.84	0.02	0.02 Knauf	No
E13 Gable (insulation at rafter level)	Independently assessed	11.35	0.04	0.04 Knauf	No
E16 Corner (normal)	Independently assessed	23.12	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	16.91	0.07	0.07 FES - Perp	No
R1 Head of roof window	Independently assessed	1.88	0.13	0.13 Knauf	No
R2 Sill of roof window	Independently assessed	1.88	0.13	0.13 Knauf	No
R3 Jamb of roof window	Independently assessed	5.60	0.08	0.08 Knauf	No
R6 Flat ceiling	Independently assessed	10.06	0.02	0.02 Knauf	No
E6 Intermediate floor within a dwelling	Independently assessed	16.91	0.03	0.03 Knauf	No
E12 Gable (insulation at ceiling level)	Independently assessed	8.89	0.04	0.04 Knauf	No
R1 Head of roof window	Table K1 - Default	0.78	0.24	0.24 Lightwell	No
R2 Sill of roof window	Table K1 - Default	0.78	0.24	0.24 Lightwell	No
R3 Jamb of roof window	Table K1 - Default	1.96	0.24	0.24 Lightwell	No
R7 Flat ceiling (inverted)	Table K1 - Default	0.78	0.12	0.12 Lightwell	No
E24 Eaves (insulation at ceiling level - inverted)	Table K1 - Default	2.77	0.15	0.15 Lightwell	No
E13 Gable (insulation at rafter level)	Table K1 - Default	1.96	0.25	0.25 Lightwell	No

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

Summary for Input Data



19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>
Number of blocked chimneys	<input type="text" value="0"/>
Number of intermittent extract fans	<input type="text" value="0"/>
Number of passive vents	<input type="text" value="0"/>
Number of flueless gas fires	<input type="text" value="0"/>

21.0 Fixed Cooling System

22.0 Pressure Testing

	<input type="text" value="Yes"/>	
Designed AP ₅₀	<input type="text" value="4.00"/>	m ³ /(h.m ²) @ 50 Pa
Test Method	<input type="text" value="Blower Door"/>	

22.0 Lighting

No Fixed Lighting	<input type="text" value="No"/>				
	Name	Efficacy	Power	Capacity	Count
	Pendants/Batten	97.50	8.00	780.00	16
	Downlights	96.00	5.00	480.00	14

24.0 Main Heating 1

	<input type="text" value="Database"/>	
Percentage of Heat	<input type="text" value="100.00"/>	%
Database Ref. No.	<input type="text" value="18123"/>	
Fuel Type	<input type="text" value="Mains gas"/>	
Model Name	<input type="text" value="LOGIC CODE COMBI ESP1"/>	
Manufacturer	<input type="text" value="Ideal Boilers"/>	
Controls SAP Code	<input type="text" value="2110"/>	
Delayed Start Stat	<input type="text" value="Yes"/>	
Flue Type	<input type="text" value="Balanced"/>	
Fan Assisted Flue	<input type="text" value="Yes"/>	
Is MHS Pumped	<input type="text" value="Pump in heated space"/>	
Heating Pump Age	<input type="text" value="2013 or later"/>	
Heat Emitter	<input type="text" value="Radiators"/>	
Flow Temperature	<input type="text" value="Unknown"/>	
Boiler Interlock	<input type="text" value="Yes"/>	
Combi boiler type	<input type="text" value="Standard Combi"/>	
Combi keep hot type	<input type="text" value="None"/>	

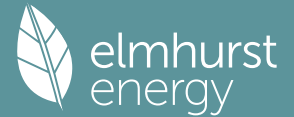
25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Summary for Input Data



Water Heating	Main Heating 1
SAP Code	901
Flue Gas Heat Recovery System	Yes
Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
Cold Water Source	From mains
Bath Count	1

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID	0
Brand Model	
Details	

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	None
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32.0 Photovoltaic Unit

Export Capable Meter?	Yes
Connected To Dwelling	Yes
Diverter	No
Battery Capacity [kWh]	0.00

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.00	East	45°	None Or Little		No	1.00		

34.0 Small-scale Hydro

34.0 Small-scale Hydro	None										
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

None

Summary for Input Data



Plot Reference	009838 - HT - Rosemary - DET		Issued on Date	23/12/2025
Assessment Reference	As Designed	Plot Type Ref	HT - Rosemary - DET	
Plot Address	Plot , HT - Rosemary - DET, Woolley Colliery Road		SAP Version	10.2

SAP Rating	93 A	DER	9.82	TER	10.15
Environmental	91 B	% DER < TER			3.25
CO ₂ Emissions (t/year)	1.19	DFEE	36.45	TFEE	39.79
Compliance Check	See BREL	% DFEE < TFEE			8.38
% DPER < TPER	2.57	DPER	51.69	TPER	53.05

Assessor Details	Mr. George Leadley	Assessor ID	P719-0001
Client	Homes By Honey, Homes by honey Limited		

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Detached
2.0 Number of Storeys	2
3.0 Date Built	2025
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
Thermal Mass	210.35 kJ/m ² K
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	1st Storey:	31.80 m	63.03 m ²	2.38 m
		31.80 m	63.03 m ²	2.70 m

8.0 Living Area	12.65 m ²
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9.0 External Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
	External Wall	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.19	110.00	161.68	137.15	0.00	None	24.53	Enter Gross Area

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	GF - Timber	Plasterboard on timber frame	9.00	84.49
	1F - Timber	Plasterboard on timber frame	9.00	160.22
	GF - Block	Dense block, plasterboard on dabs	75.00	29.75

10.0 External Roofs	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
	Cold Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	63.03	63.03	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Kappa	Area (m ²)
	Ground Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	63.03

11.0 Heat Loss Floors	Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
	Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	63.03

11.2 Internal Floors

Summary for Input Data



Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
First Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	63.03

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.52			1.22
Doors	Manufacturer	Solid Door				0.00			0.93
Patio Doors	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05			0.31			1.30
Front Door Fixed Light	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
Front Door	Doors	External Wall	East	2.15	
Front Window	Windows	External Wall	East	9.75	
LH Window	Windows	External Wall	South	0.77	
Rear Windows	Windows	External Wall	West	4.69	
Rear Patio Doors	Patio Doors	External Wall	West	5.69	
Front Door Fixed Light	Front Door Fixed Light	External Wall	East	0.71	
RH Window	Windows	External Wall	North	0.77	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E1 Steel lintel with perforated steel base plate	Independently assessed	15.64	0.17	0.17 FES	No
E3 Sill	Independently assessed	11.57	0.01	0.01 FES	No
E4 Jamb	Independently assessed	35.25	0.01	0.01 FES	No
E5 Ground floor (normal)	Independently assessed	16.69	0.07	0.07 FES - Para	No
E6 Intermediate floor within a dwelling	Independently assessed	31.80	0.01	0.01 FES	No
E10 Eaves (insulation at ceiling level)	Independently assessed	15.11	0.04	0.04 FES	No
E12 Gable (insulation at ceiling level)	Independently assessed	16.69	0.07	0.07 FES	No
E16 Corner (normal)	Independently assessed	20.34	0.06	0.06 FES	No
E5 Ground floor (normal)	Independently assessed	15.11	0.07	0.07 FES - Perp	No

Y-value W/m²K

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Mechanical extract ventilation - decentralised"/>
MV Reference Number	<input type="text" value="500787"/>
Duct Type	<input type="text" value="Flexible"/>
Wet Rooms	<input type="text" value="5"/>

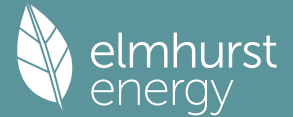
19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.13	In Room Fan Kitchen	0
0.11	In Room Fan Other Wet Room	0
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.10	Through Wall Fan Kitchen	1
0.10	Through Wall Fan Other Wet Room	4

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	<input type="text" value="0"/>
Number of open flues	<input type="text" value="0"/>
Number of chimneys/flues attached to closed fire	<input type="text" value="0"/>
Number of flues attached to solid fuel boiler	<input type="text" value="0"/>
Number of flues attached to other heater	<input type="text" value="0"/>

Summary for Input Data



Number of blocked chimneys	<input type="text" value="0"/>
Number of intermittent extract fans	<input type="text" value="0"/>
Number of passive vents	<input type="text" value="0"/>
Number of flueless gas fires	<input type="text" value="0"/>

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP ₅₀	<input type="text" value="4.00"/>	m ² /(h.m ²) @ 50 Pa
Test Method	<input type="text" value="Blower Door"/>	

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Pendants/Batten	97.50	8.00	780.00	11
Downlights	96.00	5.00	480.00	15

24.0 Main Heating 1

Percentage of Heat	<input type="text" value="100.00"/>	%
Database Ref. No.	<input type="text" value="18123"/>	
Fuel Type	<input type="text" value="Mains gas"/>	
In Winter	<input type="text" value="89.00"/>	
In Summer	<input type="text" value="87.30"/>	
Model Name	<input type="text" value="LOGIC CODE COMBI ESP1"/>	
Manufacturer	<input type="text" value="Ideal Boilers"/>	
System Type	<input type="text" value="Combi boiler"/>	
Controls SAP Code	<input type="text" value="2110"/>	
Controls description	<input type="text" value="Time and temperature zone control by arrangement"/>	
Delayed Start Stat	<input type="text" value="Yes"/>	
Flue Type	<input type="text" value="Balanced"/>	
Fan Assisted Flue	<input type="text" value="Yes"/>	
Is MHS Pumped	<input type="text" value="Pump in heated space"/>	
Heating Pump Age	<input type="text" value="2013 or later"/>	
Heat Emitter	<input type="text" value="Radiators"/>	
Flow Temperature	<input type="text" value="Unknown"/>	
Boiler Interlock	<input type="text" value="Yes"/>	
Combi boiler type	<input type="text" value="Standard Combi"/>	
Combi keep hot type	<input type="text" value="None"/>	

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

28.0 Water Heating

Water Heating	<input type="text" value="Main Heating 1"/>
SAP Code	<input type="text" value="901"/>
Flue Gas Heat Recovery System	<input type="text" value="Yes"/>
Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>
Solar Panel	<input type="text" value="No"/>
Water use <= 125 litres/person/day	<input type="text" value="Yes"/>
Cold Water Source	<input type="text" value="From mains"/>

Summary for Input Data



Bath Count

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Main Bathroom	Combi boiler or unvented hot water system	8.00		No	
En-Suite	Combi boiler or unvented hot water system	8.00		No	

28.2 Flue Gas Heat Recovery System

Database ID	<input type="text" value="0"/>
Brand Model	<input type="text"/>
Details	<input type="text"/>

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

32.0 Photovoltaic Unit

Export Capable Meter?	<input type="text" value="Yes"/>
Connected To Dwelling	<input type="text" value="Yes"/>
Diverter	<input type="text" value="No"/>
Battery Capacity [kWh]	<input type="text" value="0.00"/>

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.40	East	30°	None Or Little		No	1.00		

34.0 Small-scale Hydro

<input type="text" value="None"/>											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

- Lower cost measures
None
- Further measures to achieve even higher standards
None