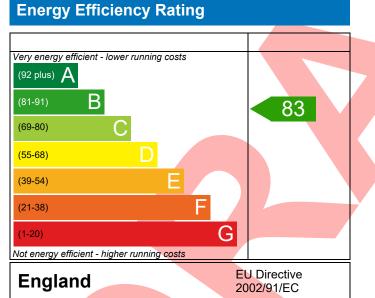


L207, 3 Bed, K, U, WC, B, ES

Dwelling type: Date of assessment: Produced by: Total floor area: House, Detached 12/01/2023 Silvio Junges 90.16 m<sup>2</sup>

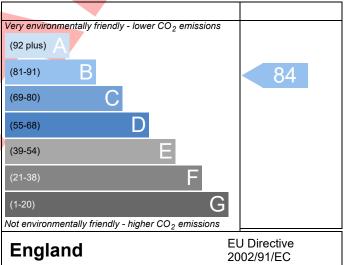
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide  $(CO_2)$  emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

## Environmental Impact (CO<sub>2</sub>) Rating



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide  $(CO_2)$  emissions. The higher the rating the less impact it has on the environment.

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



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## **BUILDING REGULATION COMPLIANCE** Calculation Type: New Build (As Designed)



Assessment Reference         I207         Prop Type Ref         Mountford Det AS           Reference         Property         I207, 3 Bed, K, U, WC, B, ES         Property         I207, 3 Bed, K, U, WC, B, ES           SAP Rating         83 B         DER         19.17         TER         2.46           C0, Emissions (I/year)         I.44         DFEE         56.13         TFEE         61.64           General Requirements Compliance         Pass         % DFEETTER         8.93         Assessor ID         P637-001           Assessor Details         Miss Maja Stanisz, Maja Stanisz, Tel: 01392 581 875,         Assessor ID         P637-001           SUMARY FOR INPUT DATA FOR New Build (As Designed)         Criterion 1         Assessor ID         P637-001           Citent         ID65         kgCO <sub>2</sub> /m <sup>2</sup> Pass         Pass           Fuel for main heating         IJ.00 (mains gas)         Pass         Pass           Fuel for main heating         IJ.03         Ig.65         kgCO <sub>2</sub> /m <sup>2</sup> Pass           Develling Carbon Dioxide Emission Rate (DER)         IJ.64         KWh/m <sup>2</sup> /yr         Pass           Develling Fabric Energy Efficiency (DFEE)         56.13         KWh/m <sup>2</sup> /yr         Pass           Dieffet and DFEE         Imiting Fabric Standards         Imit	Property Reference	4907-P637-6196-	L207				Issued on Date	12/01/2023
Property         L207, 3 Bed, K, U, WC, B, ES           SAP Rating         83 B         DER         19.17         TER         19.65           Environmental         84 B         % DFERTER         2.46         61.64           C02 Emissions (L/year)         1.44         DFEE         56.13         TFEE         61.64           General Requirements Compliance         Pass         % DFERTFEE         8.93           Assessor Details         Miss Maja Stanisz, Maja Stanisz, Tel: 01392 581 875,         Assessor ID         P637-0001           SUMARY FOR INPUT DATA FOR New Build (As Designed)         Client         500         Assessor ID         P637-0001           SUMARY FOR INPUT DATA FOR New Build (As Designed)         Client         KgC0./m²         Pass           SUMARY FOR INPUT DATA FOR New Build (As Designed)         Client         KgC0./m²         Pass           Fuel for main heating         Mains gas         Inc.48 (2.4%)         kgC0./m²         Pass           Fuel for Dioxide Emission Rate (TER)         19.17         kgC0./m²         Pass           Dwelling Carbon Dioxide Emission Rate (TER)         19.17         kgC0./m²         Pass           Chitter and DFEE         Element         Kwh/m²/yr         kgC0./m²         Pass           Target Fabric Energy Effic		L207				Prop Type Ref	Mountford Det AS	
SAP Rating         83 B         DER         19.17         TER         19.65           Environmental         84 B         % DER         2.46         2.46           CO_Emissions (t/year)         1.44         DEE         56.13         TEEE         61.64           General Requirements Compliance         Pass         % DEE         8.93         Assessor Details         Miss Maja Stanisz, Maja Stanisz, Tel: 01392 581 875, Maja Stanisz, Maja Stanisz, Tel: 01392 581 875, Maja Stanisz, Waja Stanisz, Waja Stanisz, Tel: 01392 581 875, Massessor ID         P637-0001           Client         Client         Entrand DER         Assessor D         P637-0001           SUMARY FOR INPUT DATA FOR New Build (As Designed)         Criterion 1 - Achieving the TER and TFEE rate         Ea TER and DER         Fuel for         1.00 (mains gas)         Target Carbon Dioxide Emission Rate (TER)         19.65         kgCO <sub>2</sub> /m <sup>2</sup> Pass           Jarget Fabric Energy Efficiency (TFEE)         61.64         kWh/m <sup>2</sup> /yr         KgCO <sub>2</sub> /m <sup>2</sup> Pass           Lb TEE and DEEE         Fuel fabric Energy Efficiency (TFEE)         61.64         kWh/m <sup>2</sup> /yr         Pass           Criterion 2 – Limits on design flexibility         Umiting Fabric Standards         Zienis Co.70)         Pass           Z Fabric U-values         Element         Average         Highest		1207 3 Bed K U	WC B FS					
Environmental         84 B         % DER         2.46           CO2_Emissions (t/year)         1.44         DFEE         56.13         TFEE         61.64           General Requirements Compliance         Pass         % DFEE         8.93         Assessor D0         8.93           Assessor Details         Miss Maja Stanisz, Maja Stanisz, Tel: 01392 581 875, maja stanisz@aessc.co.uk         Assessor ID         P637-0001           Client         Environmental         4.85         % DFEE         8.93           SUMARY FOR INPUT DATA FOR New Build (As Designed)         Criterion 1 - Achieving the TER and TFEE rate         4.85           La TER and DER         Fuel for main heating         1.00 (mains gas)         1.00         7.02           Target Carbon Dioxide Emission Rate (TER)         19.65         kgCO <sub>2</sub> /m <sup>2</sup> Pass           Dwelling Carbon Dioxide Emission Rate (DER)         19.17         kgCO <sub>2</sub> /m <sup>2</sup> Pass           Target Fabric Energy Efficiency (TFEE)         61.64         kWh/m <sup>2</sup> /yr         kgCO <sub>2</sub> /m <sup>2</sup> Dwelling Fabric Standards         2         2.6         KWh/m <sup>2</sup> /yr         Pass           Criterion 2 - Limits on design flexibility         0.25 (max. 0.30)         0.25 (max. 0.70)         Pass           Limiting Fabric Standards         2         2.6			,, b, E5		DED	10.17	TED	10.05
CO2 Emissions (V/year)       1.44       DFEE       56.13       TFEE       61.64         General Requirements Compliance       Pass       % DFEE       8.93         Assessor Details       Miss Maja Stanisz, Maja Stanisz, Tel: 01392 581 875, maja stanisz @ aessc.co.uk       Assessor ID       P637-0001         SUMARY FOR INPUT DATA FOR New Build (As Designed)       Criterion 1 – Achieving the TER and TFEE rate       Assessor ID       P637-0001         Citent       SumARY FOR INPUT DATA FOR New Build (As Designed)       Criterion 1 – Achieving the TER and TFEE rate       Assessor ID       P637-0001         La TER and DER       Fuel for main heating       Main's gas       Fuel for main heating       Fuel for main heating       Fuel for main heating       Fuel for Main's gas       Fuel for Main's fo						19.17		19.65
General Requirements Compliance       Pass       % DFEE       8.93         Assessor Details       Miss Maja Stanisz, Maja Stanisz, Tel: 01392 581 875, maja.stanisz@aessc.co.uk       Assessor ID       P637-0001         Client       SUMARY FOR INPUT DATA FOR New Build (As Designed)       Sumary Stanisz@aessc.co.uk       Sumary Stanisz@aessc.co.uk       P637-0001         Client       SUMARY FOR INPUT DATA FOR New Build (As Designed)       Sumary Stanisz@aessc.co.uk       Sumary Stanisz@aessc.co.uk       P637-0001         Client       Sumary Stanisz@aessc.co.uk       Sumary Stanisz@aessc.co.uk       Sumary Stanisz@aessc.co.uk       P637-0001         SUMARY FOR INPUT DATA FOR New Build (As Designed)       Sumary Stanisz@aessc.co.uk		ir)				56.13	_	61.64
Assessor Details          Miss Maja Stanisz, Maja Stanisz, Tel: 01392 581 875,       Assessor ID       P637-0001         Assessor Details       Miss Maja Stanisz, @aessc.co.uk       Assessor ID       P637-0001         Client       SUMARY FOR INPUT DATA FOR New Build (As Designed)       Sumary Stanisz, @aessc.co.uk       Sumary Stanisz, @aessc.co.uk         Client       SUMARY FOR INPUT DATA FOR New Build (As Designed)       Sumary Stanisz, @aessc.co.uk       Sumary Stanisz, @aessc.co.uk         Client       Sumary Stanisz, @aessc.co.uk       Internation Stanisz, @aessc.co.uk       Sumary Stanisz, @aessc.co.uk         Client       Sumary Stanisz, @aessc.co.uk       Internation Stanisz, @aessc.co.uk       Sumary Stanisz, @aessc.co.uk         Client       Sumary Stanisz, Maja Stanisz, Maja Stanisz, Tel: 01392 581 875, maja.stanisz, @aessc.co.uk       Sumary Stanisz, @aessc.co.uk       Sumary Stanisz, @aessc.co.uk         Client       Sumary Stanisz, Maja Stanisz, Maja Stanisz, Tel: 01392 581 875, maja.stanisz, @aessc.co.uk       Sumary Stanisz, @aessc.co.uk </td <td></td> <th></th> <td></td> <td></td> <td></td> <td>50.15</td> <td></td> <td>01.04</td>						50.15		01.04
Client SUMARY FOR INPUT DATA FOR New Build (As Designed) Criterion 1 – Achieving the TER and TFEE rate La TER and DER Fuel for main heating Fuel for main heating Fuel factor Target Carbon Dioxide Emission Rate (TER) Dwelling Carbon Dioxide Emission Rate (DER) 19.17 0.48 (-2.4%) kgC0 <sub>2</sub> /m <sup>2</sup> Pass Lb TFEE and DFEE Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE) 56.13 kWh/m <sup>2</sup> /yr 56.13 kWh/m <sup>2</sup> /yr Pass Criterion 2 – Limits on design flexibility Limiting Fabric Standards 2 Fabric U-values Element Average Highest Element Average Highest Floor 0.19 (max. 0.20) - Floor 0.17 (max. 0.20) 0.17 (max. 0.35) Pass 0 penings 0.134 (max. 2.00) 1.40 (max. 3.30) Pass 2 a Thermal bridging calculated from linear thermal transmittances for each junction 3 Air permeability 10.0 m <sup>3</sup> /(h.m <sup>2</sup> ) @ 50 Pa Pass	Assessor Details	Miss Maja Stanisz, M						P637-0001
SUMARY FOR INPUT DATA FOR New Build (As Designed)  Criterion 1 – Achieving the TER and TFEE rate  La TER and DER  Fuel for main heating Fuel factor  Target Carbon Dioxide Emission Rate (TER) Dwelling Carbon Dioxide Emission Rate (DER)  Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE)  Criterion 2 – Limits on design flexibility  Limiting Fabric Standards  Element Average Highest External wall 0.25 (max. 0.30) 0.25 (max. 0.70) Pass Openings 1.31 (max. 0.20) 1.40 (max. 3.30) Pass Openings Conternal bridging Thermal bridging calculated from linear thermal transmittances for each junction  3 Air permeability at 50 pascals  5 (10, 0, 0)  5 (10, 0)		maja.stanisz@aessc.	co.uk					
Criterion 1 – Achieving the TER and TFEE rate         La TER and DER         Fuel for main heating       Main's gas         Fuel for main heating       1.00 (mains gas).         Target Carbon Dioxide Emission Rate (TER)       19.65       kgCO2/m²         Dwelling Carbon Dioxide Emission Rate (DER)       19.17       kgCO2/m²       Pass         -0.48 (-2.4%)       kgCO2/m²       Pass         b TFEE and DFEE       -0.48 (-2.4%)       kgCO2/m²       Pass         Target Fabric Energy Efficiency (TFEE)       55.13       kWh/m²/yr       Pass         Dwelling Fabric Energy Efficiency (DFEE)       55.13       kWh/m²/yr       Pass         Criterion 2 - Limits on design flexibility       -5.5 (-8.9%)       kWh/m²/yr       Pass         Z Fabric U-values       Element       Average       Highest       Pass         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Floor       0.19 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         2a Thermal bridging calculated from linear thermal transmittances for each junction       3 Air permeability       Air permeability at 50 pascals       5.01 (design value)       m³/(h.m²) @ 50 Pa       Pass								
La TER and DER       Main's gas         Fuel for main heating       Main's gas         Fuel factor       1.00 (mains gas)         Target Carbon Dioxide Emission Rate (TER)       19.65       kgCO2/m²         Dwelling Carbon Dioxide Emission Rate (DER)       19.17       kgCO2/m²       Pass         Dwelling Carbon Dioxide Emission Rate (DER)       19.17       kgCO2/m²       Pass         Lb TFEE       -0.48 (-2.4%)       kgCO2/m²       Pass         Dwelling Fabric Energy Efficiency (TFEE)       61.64       kWh/m²/yr       kgCO2/m²         Dwelling Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr       Pass         Criterion 2 - Limits on design flexibility       55.61.3       kWh/m²/yr       Pass         Limiting Fabric Standards       Element       Average       Highest         Eternal wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.30)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         Air permeability at 50 pascals       5.01 (design value)       m³/(h.m²) @ 50 Pa       Pass				ned)				
Fuel for main heating       Mains gas         Fuel factor       1.00 (mains gas)         Target Carbon Dioxide Emission Rate (TER)       19.65       kgCO2/m²         Dwelling Carbon Dioxide Emission Rate (DER)       19.17       kgCO2/m²       Pass         Dwelling Carbon Dioxide Emission Rate (DER)       19.17       kgCO2/m²       Pass         Lo TFEE       -0.48 (-2.4%)       kgCO2/m²       Pass         Target Fabric Energy Efficiency (TFEE)       61.64       kWh/m²/yr       Pass         Dwelling Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr       Pass         Criterion 2 - Limits on design flexibility       55.13       kWh/m²/yr       Pass         Limiting Fabric Standards       2       2       Fabric U-values       Pass         Element       Average       Highest       Pass         Floor       0.19 (max. 0.20)       -       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.30)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         Za Thermal bridging calculated from linear thermal transmittances for each junction       3 Air permeability       Ma'ma       10.0       m³/(h.m²) @ 50 Pa       Pass		g the TER and TFEE r	ate					
Fuel factor       1.00 (mains gas)         Target Carbon Dioxide Emission Rate (TER)       19.65       kgCO2/m²         Dwelling Carbon Dioxide Emission Rate (DER)       19.17       kgCO2/m²       Pass         -0.48 (-2.4%)       kgCO2/m²       Pass         Lb TFEE and DFEE       61.64       kWh/m²/yr       Pass         Target Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr       Pass         Dwelling Fabric Standards       -5.5 (-8.9%)       kWh/m²/yr       Pass         Criterion 2 – Limits on design flexibility       10.00 (max. 0.30)       0.25 (max. 0.70)       Pass         Element       Average       Highest       Pass         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Ploor       0.19 (max. 0.20)       -       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         2 Thermal bridging calculated from linear thermal transmittances for each junction       3.4ir permeability       Air permeability         Air permeability       5.01 (design value)       m³/(h.m²) @ 50 Pa       Pass         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass </td <td></td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Target Carbon Dioxide Emission Rate (TER)       19.65       kgCO2/m²         Dwelling Carbon Dioxide Emission Rate (DER)       19.17       kgCO2/m²         -0.48 (-2.4%)       kgCO2/m²         Lb TFEE and DFEE       -0.48 (-2.4%)       kgCO2/m²         Target Fabric Energy Efficiency (TFEE)       61.64       kWh/m²/yr         Dwelling Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr         -5.5 (-8.9%)       kWh/m²/yr       Pass         Criterion 2 - Limits on design flexibility       -5.5 (-8.9%)       kWh/m²/yr         Limiting Fabric Standards       2 Fabric U-values       Element       Average       Highest         Element       Average       Highest       Pass       Pass         Floor       0.19 (max. 0.20)       -       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         Za Thermal bridging       5.01 (design value)       m³/(h.m²) @ 50 Pa       Maximum		ing						
Dwelling Carbon Dioxide Emission Rate (DER)           19.17       kgCO2/m²       Pass         -0.48 (-2.4%)       kgCO2/m²         b TFEE and DFEE       61.64       kWh/m²/yr         Target Fabric Energy Efficiency (TFEE)       61.64       kWh/m²/yr         Dwelling Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr         -5.5 (-8.9%)       kWh/m²/yr       Pass         criterion 2 – Limits on design flexibility       -5.5 (-8.9%)       kWh/m²/yr         Limiting Fabric Standards       2       Fabric U-values       -         Element       Average       Highest       -         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         2a Thermal bridging       -       -       -         Za Thermal bridging calculated from linear thermal transmittances for each junction       3/ir permeability       Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass	Fuel factor				ains gas)			
b TFEE and DFEE       isgC02/m²         Target Fabric Energy Efficiency (TFEE)       61.64       kWh/m²/yr         Dwelling Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr         -5.5 (-8.9%)       kWh/m²/yr       Pass         criterion 2 – Limits on design flexibility       -5.5 (-8.9%)       kWh/m²/yr         Limiting Fabric Standards       2 Fabric U-values       Filement       Average       Highest         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass <b>2 a Thermal bridging</b> Thermal bridging calculated from linear thermal transmittances for each junction <b>3 Air permeability</b> Air permeability       10.0       m³/(h.m²) @ 50 Pa       Pass	-							
b TFEE and DFEE Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE) 56.13 KWh/m <sup>2</sup> /yr -5.5 (-8.9%) kWh/m <sup>2</sup> /yr Pass riterion 2 – Limits on design flexibility Limiting Fabric Standards 2 Fabric U-values Element Average Highest Eternal wall 0.25 (max. 0.30) 0.25 (max. 0.70) Pass Party wall 0.00 (max. 0.20) - Floor 0.19 (max. 0.25) 0.19 (max. 0.70) Pass Roof 0.17 (max. 0.20) 0.17 (max. 0.35) Pass Openings 1.34 (max. 2.00) 1.40 (max. 3.30) Pass 2 Thermal bridging Thermal bridging calculated from linear thermal transmittances for each junction 3 Air permeability Air permeability at 50 pascals Maximum 10.0 m <sup>3</sup> /(h.m <sup>2</sup> ) @ 50 Pa m <sup>3</sup> /(h.m <sup>2</sup> ) @ 50 Pa	Dwelling Carbon D	vioxide Emission Rate	(DER)					Pass
Target Fabric Energy Efficiency (TFEE)       61.64       kWh/m²/yr         Dwelling Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr         •5.5 (-8.9%)       kWh/m²/yr       Pass         riterion 2 – Limits on design flexibility         Limiting Fabric Standards         2 Fabric U-values         Element       Average       Highest         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         2a Thermal bridging       5.01 (design value)       m³/(h.m²) @ 50 Pa       Maximum	h TEEE and DEEE			-0.48 (-2	.4%)		kgCO <sub>2</sub> /m <sup>2</sup>	
Dwelling Fabric Energy Efficiency (DFEE)       56.13       kWh/m²/yr         -5.5 (-8.9%)       kWh/m²/yr       Pass         criterion 2 – Limits on design flexibility       kWh/m²/yr       Pass         Limiting Fabric Standards       2 Fabric U-values       kWh/m²/yr       Pass         Element       Average       Highest       Pass         Party wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Floor       0.19 (max. 0.20)       -       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         2a Thermal bridging       Thermal bridging calculated from linear thermal transmittances for each junction       3 Air permeability         Air permeability       10.0       m³/(h.m²) @ 50 Pa       Pass				64.64				
-5.5 (-8.9%)       kWh/m²/yr       Pass         kWh/m²/yr       Pass         riterion 2 – Limits on design flexibility         Limiting Fabric Standards         2 Fabric U-values         Element       Average       Highest         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         2a Thermal bridging         Thermal bridging calculated from linear thermal transmittances for each junction         3 Air permeability         Air permeability at 50 pascals       5.01 (design value)       m³/(h.m²) @ 50 Pa       Pass         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass	-		.,					
Criterion 2 – Limits on design flexibility         Limiting Fabric Standards         Limiting Fabric Standards         Element       Average       Highest         Element       Average       Highest         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         Za Thermal bridging         Thermal bridging calculated from linear thermal transmittances for each junction         3 Air permeability       5.01 (design value)       m³/(h.m²) @ 50 Pa         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass	Dwelling Fabric En	ergy Emciency (DFEE	:)					
Limiting Fabric Standards         2 Fabric U-values       Highest         Element       Average       Highest         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         Description of the second provided from linear thermal transmittances for each junction         3 Air permeability         Air permeability at 50 pascals       5.01 (design value)       m³/(h.m²) @ 50 Pa       Pass         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass				-5.5 (-8.9	9%)		KWh/m²/yr	Pass
Z Fabric U-values       Highest         Element       Average       Highest         External wall       0.25 (max. 0.30)       0.25 (max. 0.70)       Pass         Party wall       0.00 (max. 0.20)       -       Pass         Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass         Determal bridging         Thermal bridging calculated from linear thermal transmittances for each junction         3 Air permeability at 50 pascals       5.01 (design value)       m³/(h.m²) @ 50 Pa         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass					-			
ElementAverageHighestExternal wall0.25 (max. 0.30)0.25 (max. 0.70)PassParty wall0.00 (max. 0.20)-PassFloor0.19 (max. 0.25)0.19 (max. 0.70)PassRoof0.17 (max. 0.20)0.17 (max. 0.35)PassOpenings1.34 (max. 2.00)1.40 (max. 3.30)PassDermal bridging calculated from linear thermal transmittances for each junctionSol1 (design value)m³/(h.m²) @ 50 PaMaximum10.0m³/(h.m²) @ 50 PaPass		andards						
External wall0.25 (max. 0.30)0.25 (max. 0.70)PassParty wall0.00 (max. 0.20)-PassFloor0.19 (max. 0.25)0.19 (max. 0.70)PassRoof0.17 (max. 0.20)0.17 (max. 0.35)PassOpenings1.34 (max. 2.00)1.40 (max. 3.30)Pass <b>Za Thermal bridging</b> Thermal bridging calculated from linear thermal transmittances for each junction <b>Air permeability</b> Air permeability at 50 pascals5.01 (design value)m³/(h.m²) @ 50 PaMaximum10.0m³/(h.m²) @ 50 PaPass								
Party wall0.00 (max. 0.20)-PassFloor0.19 (max. 0.25)0.19 (max. 0.70)PassRoof0.17 (max. 0.20)0.17 (max. 0.35)PassOpenings1.34 (max. 2.00)1.40 (max. 3.30)Pass <b>2a Thermal bridging</b> Thermal bridging calculated from linear thermal transmittances for each junction <b>3 Air permeability</b> Air permeability at 50 pascals5.01 (design value)m³/(h.m²) @ 50 PaMaximum10.0m³/(h.m²) @ 50 PaPass			-			-	2)	
Floor       0.19 (max. 0.25)       0.19 (max. 0.70)       Pass         Roof       0.17 (max. 0.20)       0.17 (max. 0.35)       Pass         Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass <b>2a Thermal bridging</b> Thermal bridging calculated from linear thermal transmittances for each junction <b>3 Air permeability</b> 5.01 (design value)       m³/(h.m²) @ 50 Pa         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass		all				0.25 (max. 0.7	0)	
Roof0.17 (max. 0.20)0.17 (max. 0.35)PassOpenings1.34 (max. 2.00)1.40 (max. 3.30)Pass <b>2a Thermal bridging</b> Thermal bridging calculated from linear thermal transmittances for each junction <b>3 Air permeability</b> Air permeabilityAir permeability at 50 pascals5.01 (design value)m³/(h.m²) @ 50 PaMaximum10.0m³/(h.m²) @ 50 PaPass						-	2)	
Openings       1.34 (max. 2.00)       1.40 (max. 3.30)       Pass <b>2a Thermal bridging</b> Thermal bridging calculated from linear thermal transmittances for each junction       Pass <b>3 Air permeability</b> Sold (design value)       m³/(h.m²) @ 50 Pa         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass				,				
2a Thermal bridging         Thermal bridging calculated from linear thermal transmittances for each junction         3 Air permeability         Air permeability at 50 pascals       5.01 (design value)       m³/(h.m²) @ 50 Pa         Maximum       10.0       m³/(h.m²) @ 50 Pa       Pass								
Thermal bridging calculated from linear thermal transmittances for each junction         3 Air permeability         Air permeability at 50 pascals         5.01 (design value)         m³/(h.m²) @ 50 Pa         Maximum         10.0			1.34 (m	ax. 2.00)		1.40 (max. 3.3)	0)	Pass
3 Air permeability         Air permeability at 50 pascals         5.01 (design value)         m³/(h.m²) @ 50 Pa         10.0         m³/(h.m²) @ 50 Pa	-			1				
Air permeability at 50 pascals         5.01 (design value)         m³/(h.m²) @ 50 Pa           Maximum         10.0         m³/(h.m²) @ 50 Pa         Pass	Ű		near therm	ial transmit	tances for each j	unction		
Maximum         10.0         m³/(h.m²) @ 50 Pa         Pass								
		zy at 50 pascals			sign value)			
Limiting System Efficiencies				10.0			m³/(h.m²) @ 50 Pa	Pass
	Limiting System E	fficiencies						
	<u>4 Heating efficience</u>	<u>cy</u>						

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



## **BUILDING REGULATION COMPLIANCE** Calculation Type: New Build (As Designed)



Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database Ideal LOGIC COMBI ESP1 35	
	Combi boiler	
	Efficiency: 89.6% SEDBUK2009	
	Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</u>		
Space heating controls	Time and temperature zone control	Pass
Hot water controls	No cylinder	
Boiler interlock	Yes	Pass
7 Low energy lights		
Percentage of fixed lights with low-energy fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
Criterion 3 – Limiting the effects of heat gains in sur	nmer	
9 Summertime temperature		
Overheating risk (Thames Valley)	Slight	Pass
Based on:	- AD	
Overshading	Average	7
Windows facing North East	5.96 m <sup>2</sup> , No overhang	1
Windows facing South West	2.16 m <sup>2</sup> , No overhang	
Windows facing North West	7.08 m <sup>2</sup> , No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with I	DER and DFEE rate	
Party Walls		
Туре	U-value	
	W/m²K	Pass
Air permeability and pressure testing		
<u>3 Air permeability</u>		
Air permeability at 50 pascals	5.01 (design value) m <sup>3</sup> /(h.m <sup>2</sup> ) @ 50 Pa	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass
<u>10 Key features</u>		
Party wall U-value	0.00 W/m²K	
Door U-value	0.90 W/m²K	
Window U-value	0.90 W/m²K	
Thermal bridging y-value	0.032 W/m²K	

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## RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating	£4,000 - £6,000	£26	B 84	B 86	Recommended
Photovoltaic	£3,500 - £5,500	£373	A 94	A 95	Recommended
Wind turbine			0	0	Not applicable
Totals	£7,500 - £11,500	£399	A 94	A 95	
Totals	17,500 111,500	2333	A SA	A 33	

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