PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	49.86 m²

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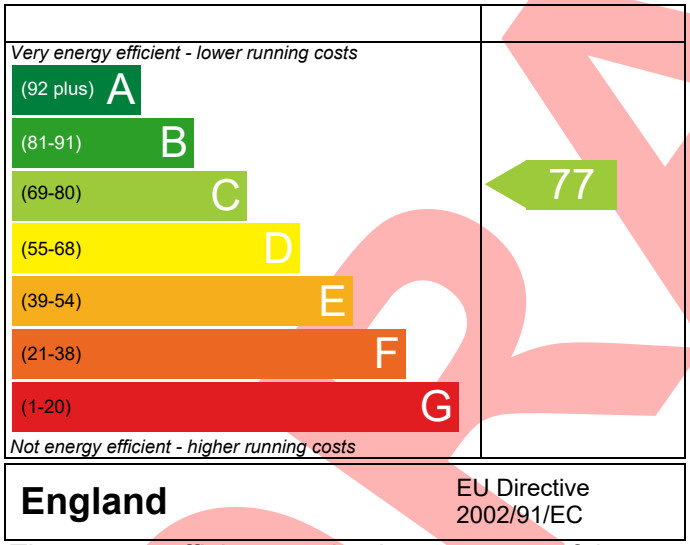
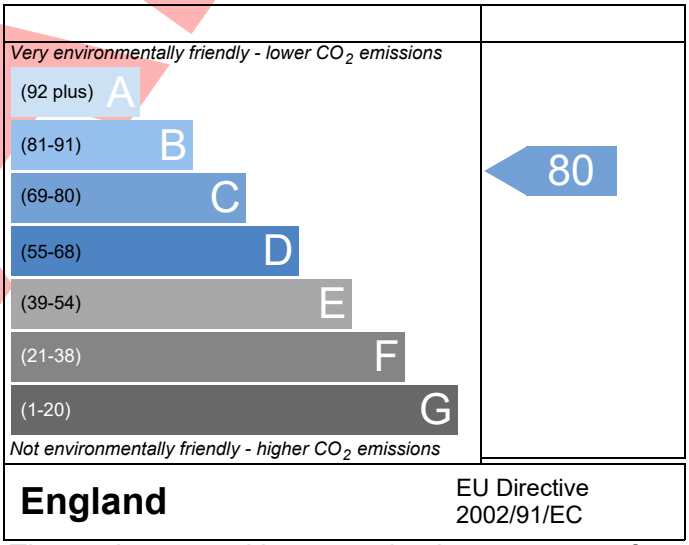
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO_2) emissions.

Energy Efficiency Rating



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_2) Rating



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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.01	**Issued on Date**	08/04/2022
Assessment Reference	P.V. Revision	**Prop Type Ref**	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	77 C	**DER**	30.48	**TER**	31.61
Environmental	80 C	**% DER<TER**	3.57		
CO_2 Emissions (t/year)	1.28	**DFEE**	45.86	**TFEE**	56.44
General Requirements Compliance	Pass	**% DFEE<TFEE**	18.76		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	**Assessor ID**	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	31.61	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	30.48	$kgCO_2/m^2$	Pass
	-1.13 (-3.6%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	56.44	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	45.86	$kWh/m^2/yr$	
	-10.5 (-18.6%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.18 (max. 0.25)	0.18 (max. 0.70)	Pass
Openings	1.26 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing South Windows facing West	13.86 m², No overhang 4.09 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	194.63	kWh/Year

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PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	71.76 m²

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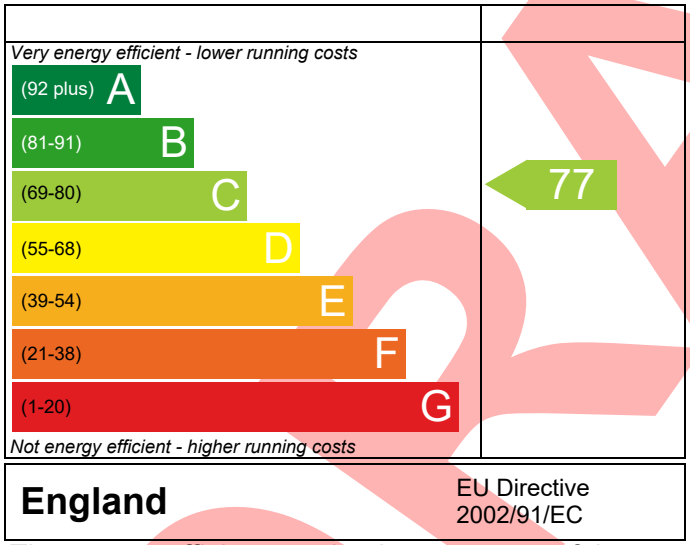
Energy Efficiency Rating



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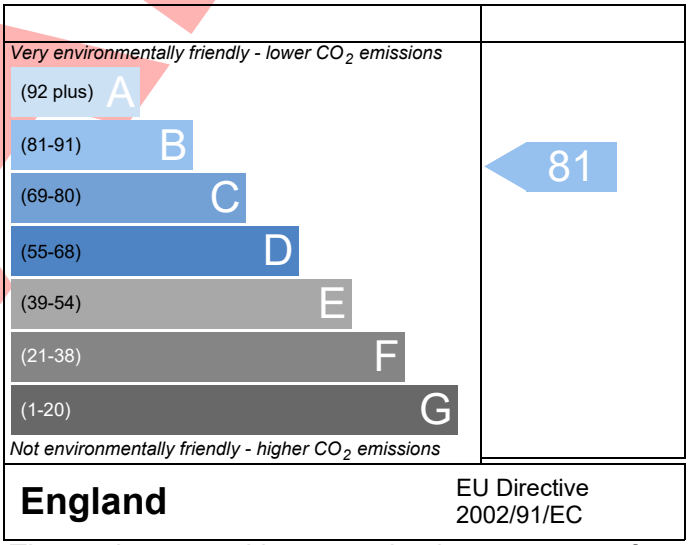
Environmental Impact (CO_2) Rating



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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.02	**Issued on Date**	08/04/2022
Assessment Reference	P.V. Revision	**Prop Type Ref**	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	77 C	**DER**	25.90	**TER**	27.56
Environmental	81 B	**% DER<TER**	6.02		
CO_2 Emissions (t/year)	1.55	**DFEE**	45.28	**TFEE**	53.28
General Requirements Compliance	Pass	**% DFEE<TFEE**	15.03		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	**Assessor ID**	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	27.56	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	25.90	$kgCO_2/m^2$	Pass
	-1.66 (-6.0%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	53.28	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	45.28	$kWh/m^2/yr$	
	-8.0 (-15.0%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.18 (max. 0.25)	0.18 (max. 0.70)	Pass
Openings	1.23 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing East	19.76 m², No overhang		
Windows facing South	16.03 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	280.11	kWh/Year

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PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	50.78 m²

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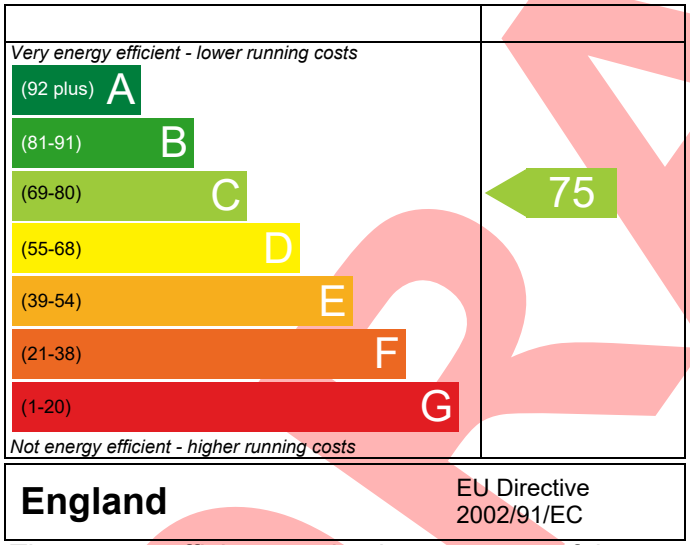
Energy Efficiency Rating



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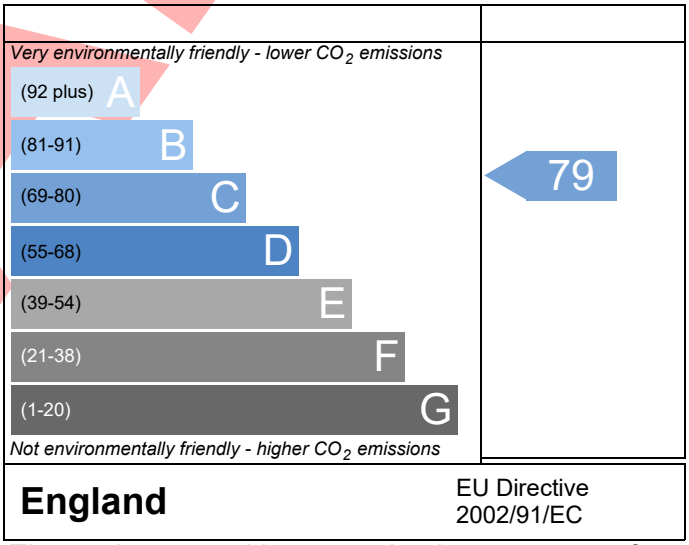
Environmental Impact (CO_2) Rating



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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.03	Issued on Date	08/04/2022
Assessment Reference	P.V. Revision	Prop Type Ref	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	75 C	DER	32.91	TER	31.96
Environmental	79 C	% DER<TER	-2.98		
CO_2 Emissions (t/year)	1.39	DFEE	51.92	TFEE	57.85
General Requirements Compliance	Fail	% DFEE<TFEE	10.25		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	Assessor ID	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	31.96	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	32.91	$kgCO_2/m^2$	
Excess emissions	0.95 (3.0%)	$kgCO_2/m^2$	Fail

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	57.85	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	51.92	$kWh/m^2/yr$	
	-6.0 (-10.4%)	$kWh/m^2/yr$	Pass

Criterion 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	0.18 (max. 0.25)	0.18 (max. 0.70)	Pass
Openings	1.31 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing East Windows facing South	13.81 m², No overhang 4.09 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	198.22	kWh/Year

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PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	52.99 m²

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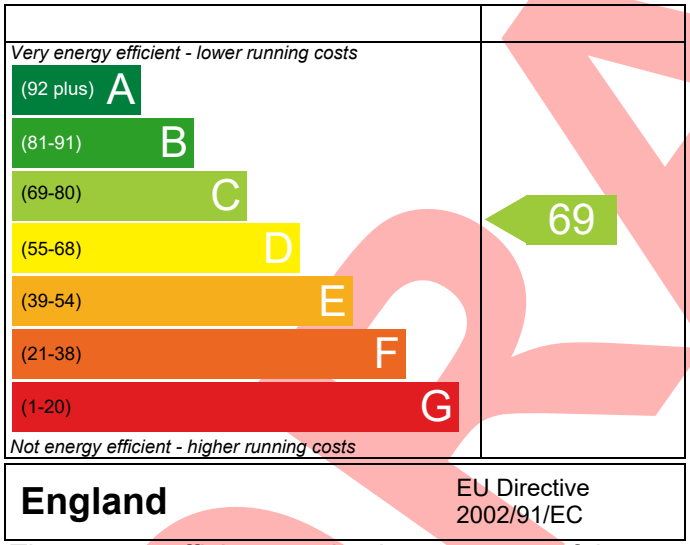
Energy Efficiency Rating



England EU Directive 2002/91/EC

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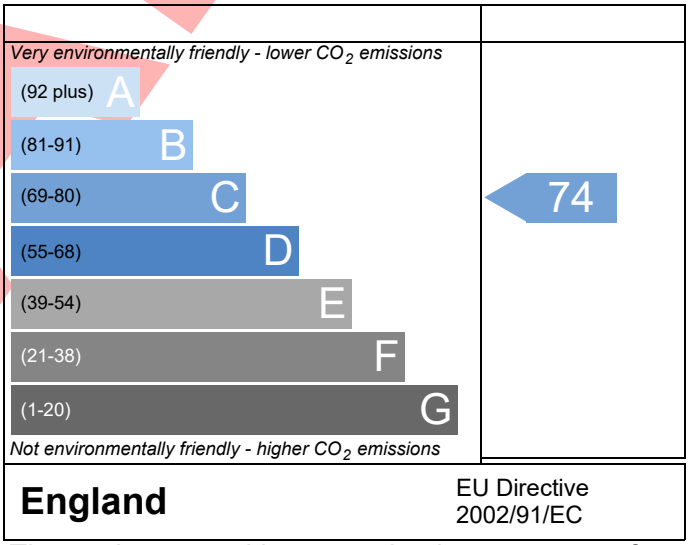
Environmental Impact (CO_2) Rating



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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.04	Issued on Date	08/04/2022
Assessment Reference	P.V. Revision	Prop Type Ref	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	69 C	DER	40.04	TER	35.30
Environmental	74 C	% DER<TER	-13.42		
CO_2 Emissions (t/year)	1.75	DFEE	66.89	TFEE	70.91
General Requirements Compliance	Fail	% DFEE<TFEE	5.67		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	Assessor ID	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	35.30	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	40.04	$kgCO_2/m^2$	
Excess emissions	4.74 (13.4%)	$kgCO_2/m^2$	Fail

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	70.91	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	66.89	$kWh/m^2/yr$	
	-4.0 (-5.6%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.18 (max. 0.25)	0.18 (max. 0.70)	Pass
Openings	1.24 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing North Windows facing East	18.12 m², No overhang 7.84 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	206.84	kWh/Year

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PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
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UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	49.86 m²

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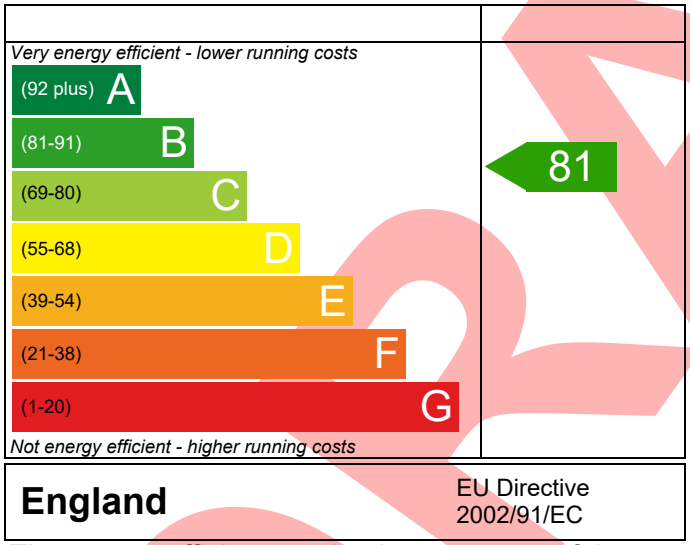
Energy Efficiency Rating



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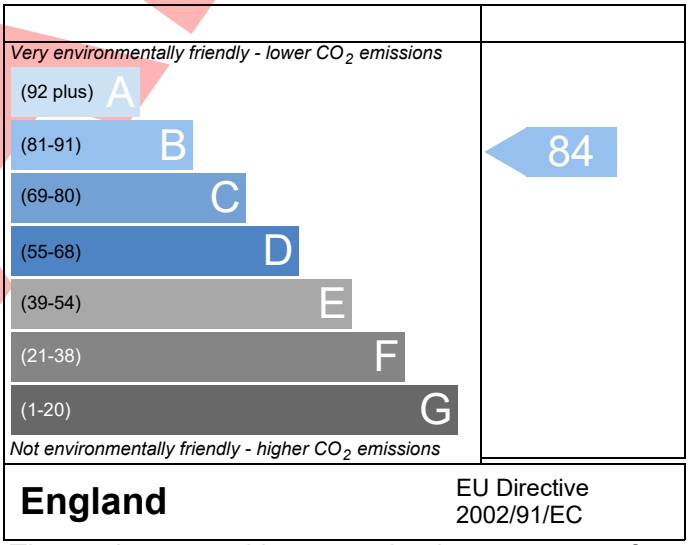
Environmental Impact (CO_2) Rating



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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.05	**Issued on Date**	08/04/2022
Assessment Reference	P.V. Revision	**Prop Type Ref**	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	81 B	**DER**	24.13	**TER**	26.55
Environmental	84 B	**% DER<TER**	9.12		
CO_2 Emissions (t/year)	1.05	**DFEE**	32.38	**TFEE**	39.37
General Requirements Compliance	Pass	**% DFEE<TFEE**	17.76		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	**Assessor ID**	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	26.55	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	24.13	$kgCO_2/m^2$	Pass
	-2.42 (-9.1%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	39.37	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	32.38	$kWh/m^2/yr$	
	-7.0 (-17.8%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.16 (max. 0.20)	0.16 (max. 0.35)	Pass
Openings	1.26 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing South Windows facing West	13.86 m², No overhang 4.09 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	194.63	kWh/Year

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

PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	71.76 m²

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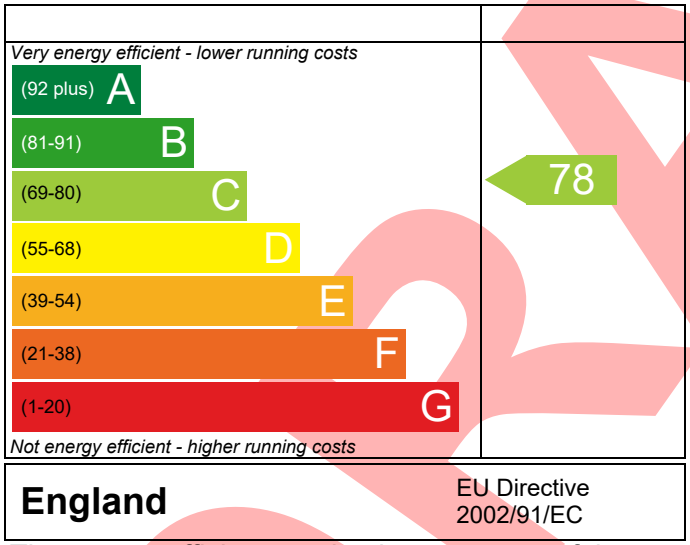
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO_2) emissions.

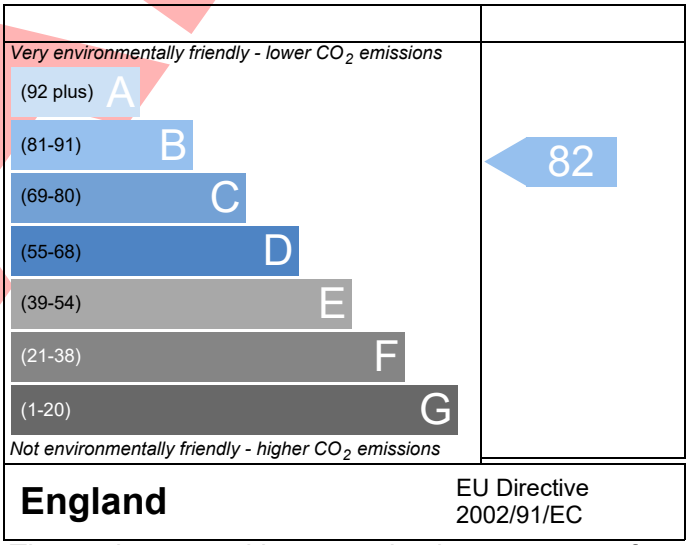
Energy Efficiency Rating



England EU Directive 2002/91/EC

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_2) Rating



England EU Directive 2002/91/EC

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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)

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.06	Issued on Date	08/04/2022
Assessment Reference	P.V. Revision	Prop Type Ref	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	78 C	DER	24.26	TER	23.42
Environmental	82 B	% DER<TER	-3.57		
CO_2 Emissions (t/year)	1.43	DFEE	39.70	TFEE	39.49
General Requirements Compliance	Fail	% DFEE<TFEE	-0.53		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	Assessor ID	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	23.42	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	24.26	$kgCO_2/m^2$	
Excess emissions	0.84 (3.6%)	$kgCO_2/m^2$	Fail

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	39.49	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	39.70	$kWh/m^2/yr$	
Excess energy	0.2 (0.5%)	$kWh/m^2/yr$	Fail

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.16 (max. 0.20)	0.16 (max. 0.35)	Pass
Openings	1.23 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Windows facing East	19.76 m², No overhang		
Windows facing South	16.03 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	280.11	kWh/Year

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PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	50.78 m²

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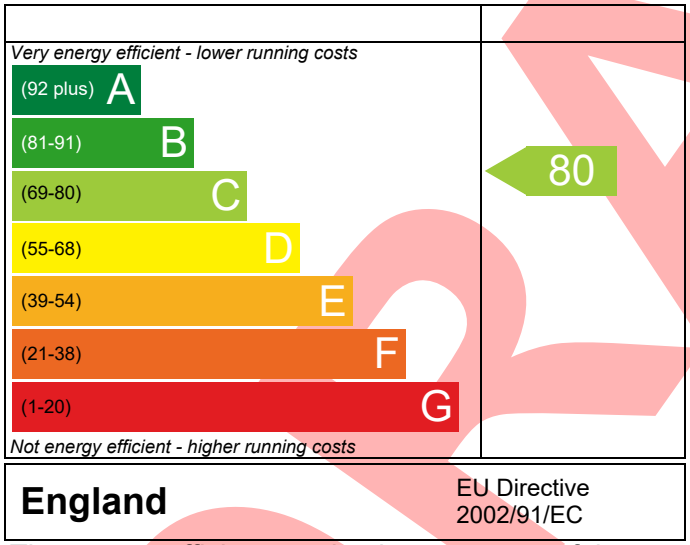
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO_2) emissions.

Energy Efficiency Rating



England EU Directive 2002/91/EC

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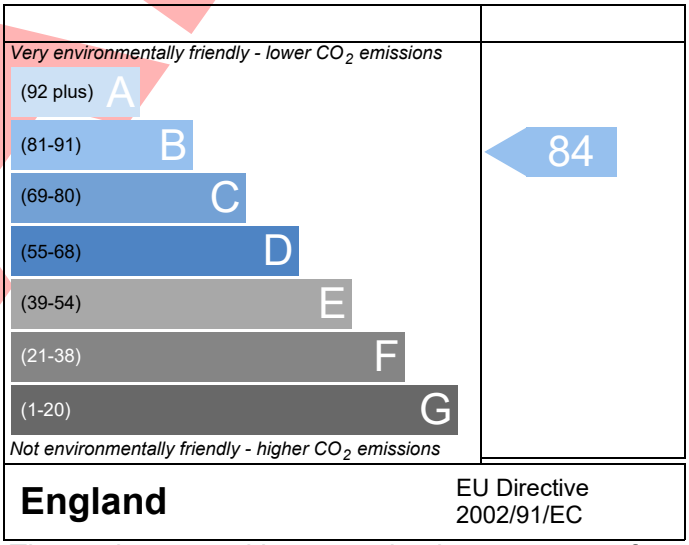
Environmental Impact (CO_2) Rating



England EU Directive 2002/91/EC

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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.07	Issued on Date	08/04/2022
Assessment Reference	P.V. Revision	Prop Type Ref	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	80 C	DER	25.28	TER	26.44
Environmental	84 B	% DER<TER	4.38		
CO_2 Emissions (t/year)	1.09	DFEE	36.50	TFEE	39.39
General Requirements Compliance	Pass	% DFEE<TFEE	7.31		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	Assessor ID	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	26.44	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	25.28	$kgCO_2/m^2$	Pass
	-1.16 (-4.4%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	39.39	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	36.50	$kWh/m^2/yr$	
	-2.9 (-7.4%)	$kWh/m^2/yr$	Pass

Criterion 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
Roof	0.16 (max. 0.20)	0.16 (max. 0.35)	Pass
Openings	1.31 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing East Windows facing South	13.81 m², No overhang 4.09 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	198.22	kWh/Year

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

PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	62.1 m²

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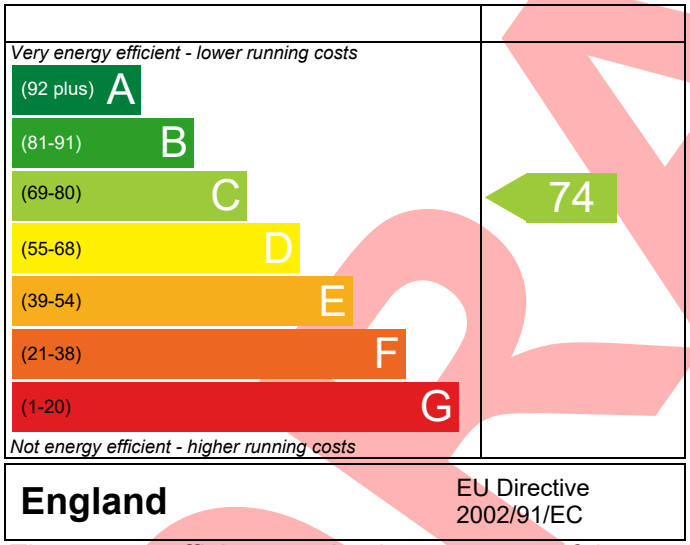
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO_2) emissions.

Energy Efficiency Rating



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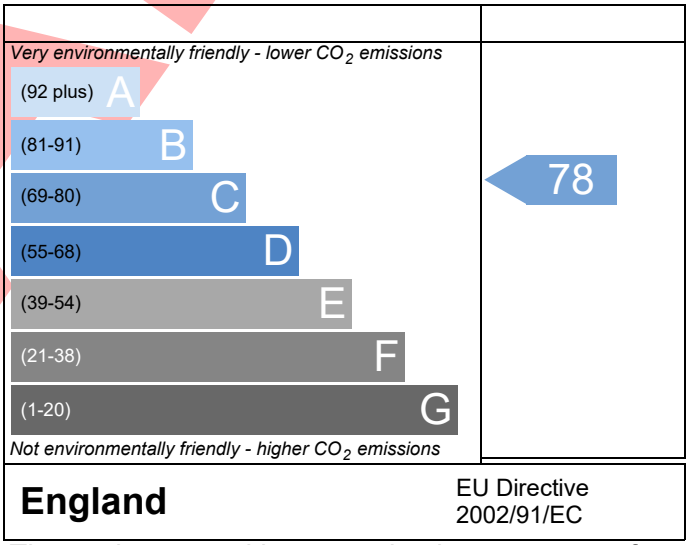
Environmental Impact (CO_2) Rating



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.

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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.08	**Issued on Date**	08/04/2022
Assessment Reference	P.V. Revision	**Prop Type Ref**	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	74 C	**DER**	31.59	**TER**	29.15
Environmental	78 C	**% DER<TER**	-8.36		
CO_2 Emissions (t/year)	1.60	**DFEE**	53.07	**TFEE**	54.71
General Requirements Compliance	Fail	**% DFEE<TFEE**	3.00		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	**Assessor ID**	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	29.15	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	31.59	$kgCO_2/m^2$	
Excess emissions	2.44 (8.4%)	$kgCO_2/m^2$	Fail

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	54.71	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	53.07	$kWh/m^2/yr$	
	-1.6 (-2.9%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.16 (max. 0.20)	0.16 (max. 0.35)	Pass
Openings	1.24 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing North Windows facing East	22.17 m², No overhang 7.84 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Thermal bridging y-value	0.029	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	242.40	kWh/Year

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

PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	77.67 m²

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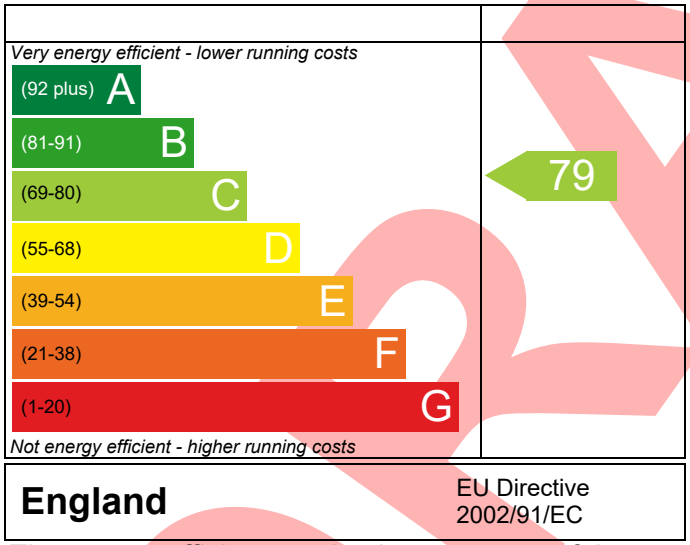
Energy Efficiency Rating



England EU Directive 2002/91/EC

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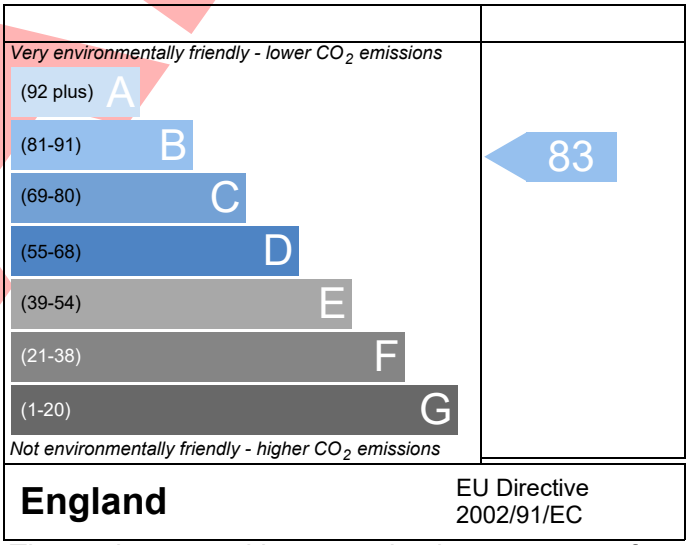
Environmental Impact (CO_2) Rating



England EU Directive 2002/91/EC

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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)

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.09	Issued on Date	08/04/2022
Assessment Reference	P.V. Revision	Prop Type Ref	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	79 C	DER	22.28	TER	24.99
Environmental	83 B	% DER<TER	10.85		
CO_2 Emissions (t/year)	1.44	DFEE	37.26	TFEE	46.57
General Requirements Compliance	Pass	% DFEE<TFEE	20.00		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	Assessor ID	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	24.99	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	22.28	$kgCO_2/m^2$	Pass
	-2.71 (-10.8%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	46.57	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	37.26	$kWh/m^2/yr$	
	-9.3 (-20.0%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.20 (max. 0.30)	0.20 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.16 (max. 0.20)	0.16 (max. 0.35)	Pass
Openings	1.24 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing East	12.11 m², No overhang		
Windows facing South	20.21 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	303.18	kWh/Year

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

PREDICTED ENERGY ASSESSMENT

ATSPACE
DELIVERING BEYOND COMPLIANCE

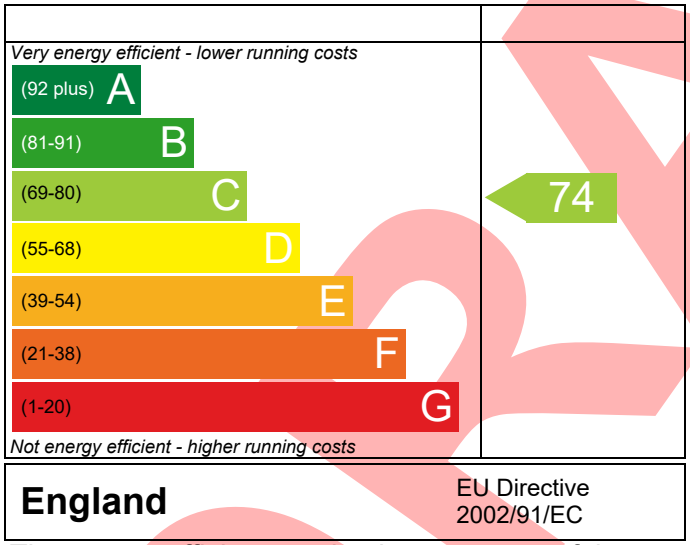
The Star, Uxbridge Road,
Uxbridge,
UB10 0LY

Dwelling type:	Flat, Semi-Detached
Date of assessment:	08/04/2022
Produced by:	Paul Whiffin
Total floor area:	77.28 m²

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.

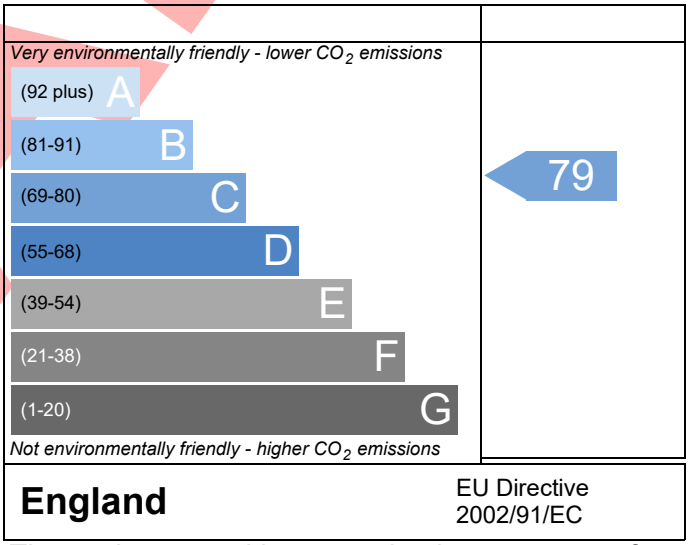
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO_2) emissions.

Energy Efficiency Rating



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_2) 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.

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

ATSPACE
DELIVERING BEYOND COMPLIANCE

Property Reference	Q-03466 APT.10	Issued on Date	08/04/2022
Assessment Reference	P.V. Revision	Prop Type Ref	New Build
Property	The Star, Uxbridge Road, Uxbridge, UB10 0LY		

SAP Rating	74 C	DER	28.70	TER	28.04
Environmental	79 C	% DER<TER	-2.34		
CO_2 Emissions (t/year)	1.79	DFEE	50.43	TFEE	56.66
General Requirements Compliance	Fail	% DFEE<TFEE	11.00		

Assessor Details	Mr. Paul Whiffin, Paul Whiffin, Tel: 01763 268685, pw@atspaceltd.co.uk	Assessor ID	y314-0001
Client	Harjeet Suri, 33244		

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	28.04	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	28.70	$kgCO_2/m^2$	
Excess emissions	0.66 (2.4%)	$kgCO_2/m^2$	Fail

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	56.66	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	50.43	$kWh/m^2/yr$	
	-6.3 (-11.1%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.20 (max. 0.30)	0.20 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.16 (max. 0.20)	0.16 (max. 0.35)	Pass
Openings	1.24 (max. 2.00)	1.80 (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	3.00 (design value)	$m^3/(h.m^2)$ @ 50 Pa	
Maximum	10.0	$m^3/(h.m^2)$ @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Electric Direct-acting boiler	
Secondary heating system	None	

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

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.90 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	No primary pipework		

6 Controls

Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat		Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Continuous supply and extract system			
Specific fan power	0.62		
Maximum	1.5		Pass
MVHR efficiency	94	%	
Minimum	70	%	Pass

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing North Windows facing East	16.11 m², No overhang 16.21 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	3.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Air permeability	3.0	m³/m²h
Photovoltaic array	301.66	kWh/Year

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