BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 01	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 01
Property	01		

SAP Rating	77 C	**DER**	32.10	**TER**	58.89
Environmental	88 B	**% DER<TER**	45.49		
CO_2 Emissions (t/year)	0.52	**DFEE**	65.46	**TFEE**	66.01
General Requirements Compliance	Pass	**% DFEE<TFEE**	0.83		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	58.89	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	32.10	$kgCO_2/m^2$	Pass
	-26.79 (-45.5%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	66.01	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	65.46	$kWh/m^2/yr$	
	-0.5 (-0.8%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.14 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.11 (max. 0.25)	0.11 (max. 0.70)	Pass
Openings	1.14 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	More than average		
Windows facing South	4.80 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

External wall U-value	0.13	W/m²K
Party wall U-value	0.00	W/m²K
Floor U-value	0.11	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 01	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 01
Property	01		

SAP Rating	77 C	**DER**	38.06	**TER**	39.27
Environmental	86 B	**% DER<TER**	3.08		
CO_2 Emissions (t/year)	0.62	**DFEE**	61.82	**TFEE**	62.22
General Requirements Compliance	Pass	**% DFEE<TFEE**	0.64		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	39.27	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	38.06	$kgCO_2/m^2$	Pass
	-1.21 (-3.1%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	62.22	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	61.82	$kWh/m^2/yr$	
	-0.4 (-0.6%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.14 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.11 (max. 0.25)	0.11 (max. 0.70)	Pass
Openings	1.14 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium		Pass

Based on:

Overshading	Average		
Windows facing South	4.80 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

External wall U-value	0.13	W/m²K
Party wall U-value	0.00	W/m²K
Floor U-value	0.11	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 02	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 02
Property	02		

SAP Rating	77 C	**DER**	32.22	**TER**	58.64
Environmental	87 B	**% DER<TER**	45.05		
CO_2 Emissions (t/year)	0.57	**DFEE**	73.37	**TFEE**	74.21
General Requirements Compliance	Pass	**% DFEE<TFEE**	1.14		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	58.64	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	32.22	$kgCO_2/m^2$	Pass
	-26.42 (-45.1%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	74.21	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	73.37	$kWh/m^2/yr$	
	-0.8 (-1.1%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.14 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.11 (max. 0.25)	0.11 (max. 0.70)	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.14 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	More than average
Windows facing South	4.80 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

External wall U-value	0.13	W/m²K
Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Roof U-value	0.12	W/m²K
Floor U-value	0.11	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 02	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 02
Property	02		

SAP Rating	77 C	**DER**	39.25	**TER**	39.84
Environmental	85 B	**% DER<TER**	1.49		
CO_2 Emissions (t/year)	0.70	**DFEE**	73.37	**TFEE**	74.21
General Requirements Compliance	Pass	**% DFEE<TFEE**	1.14		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	39.84	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	39.25	$kgCO_2/m^2$	Pass
	-0.59 (-1.5%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	74.21	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	73.37	$kWh/m^2/yr$	
	-0.8 (-1.1%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.14 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.11 (max. 0.25)	0.11 (max. 0.70)	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.14 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	More than average
Windows facing South	4.80 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

External wall U-value	0.13	W/m²K
Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Roof U-value	0.12	W/m²K
Floor U-value	0.11	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 03	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 03
Property	03		

SAP Rating	77 C	**DER**	31.41	**TER**	58.25
Environmental	89 B	**% DER<TER**	46.08		
CO_2 Emissions (t/year)	0.50	**DFEE**	61.03	**TFEE**	62.34
General Requirements Compliance	Pass	**% DFEE<TFEE**	2.09		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	58.25	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	31.41	$kgCO_2/m^2$	Pass
	-26.84 (-46.1%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	62.34	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	61.03	$kWh/m^2/yr$	
	-1.3 (-2.1%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.14 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	Average
Windows facing East	0.42 m², No overhang
Windows facing South	4.09 m², No overhang
Windows facing West	0.21 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 03	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 03
Property	03		

SAP Rating	77 C	**DER**	38.21	**TER**	39.72
Environmental	86 B	**% DER<TER**	3.81		
CO_2 Emissions (t/year)	0.61	**DFEE**	61.03	**TFEE**	62.34
General Requirements Compliance	Pass	**% DFEE<TFEE**	2.09		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	39.72	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	38.21	$kgCO_2/m^2$	Pass
	-1.51 (-3.8%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	62.34	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	61.03	$kWh/m^2/yr$	
	-1.3 (-2.1%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.14 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	Average
Windows facing East	0.42 m², No overhang
Windows facing South	4.09 m², No overhang
Windows facing West	0.21 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 04	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 04
Property	04		

SAP Rating	77 C	**DER**	31.61	**TER**	58.34
Environmental	88 B	**% DER<TER**	45.82		
CO_2 Emissions (t/year)	0.55	**DFEE**	68.37	**TFEE**	73.16
General Requirements Compliance	Pass	**% DFEE<TFEE**	6.55		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	58.34	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	31.61	$kgCO_2/m^2$	Pass
	-26.73 (-45.8%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	73.16	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	68.37	$kWh/m^2/yr$	
	-4.8 (-6.6%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing North	2.40 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 04	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 04
Property	04		

SAP Rating	77 C	**DER**	38.45	**TER**	39.67
Environmental	85 B	**% DER<TER**	3.07		
CO_2 Emissions (t/year)	0.67	**DFEE**	68.37	**TFEE**	73.16
General Requirements Compliance	Pass	**% DFEE<TFEE**	6.55		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	39.67	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	38.45	$kgCO_2/m^2$	Pass
	-1.22 (-3.1%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	73.16	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	68.37	$kWh/m^2/yr$	
	-4.8 (-6.6%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing North	2.40 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 05	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 05
Property	05		

SAP Rating	78 C	**DER**	31.07	**TER**	57.85
Environmental	89 B	**% DER<TER**	46.29		
CO_2 Emissions (t/year)	0.49	**DFEE**	58.20	**TFEE**	61.64
General Requirements Compliance	Pass	**% DFEE<TFEE**	5.58		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	57.85	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	31.07	$kgCO_2/m^2$	Pass
	-26.78 (-46.3%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	61.64	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	58.20	$kWh/m^2/yr$	
	-3.4 (-5.5%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	Average
Windows facing East	2.40 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 05	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 05
Property	05		

SAP Rating	78 C	**DER**	37.76	**TER**	39.47
Environmental	87 B	**% DER<TER**	4.32		
CO_2 Emissions (t/year)	0.60	**DFEE**	58.20	**TFEE**	61.64
General Requirements Compliance	Pass	**% DFEE<TFEE**	5.58		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	39.47	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	37.76	$kgCO_2/m^2$	Pass
	-1.71 (-4.3%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	61.64	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	58.20	$kWh/m^2/yr$	
	-3.4 (-5.5%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	Average
Windows facing East	2.40 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 06	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 06
Property	06		

SAP Rating	78 C	**DER**	30.91	**TER**	56.32
Environmental	89 B	**% DER<TER**	45.12		
CO_2 Emissions (t/year)	0.49	**DFEE**	54.80	**TFEE**	55.61
General Requirements Compliance	Pass	**% DFEE<TFEE**	1.46		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	56.32	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	30.91	$kgCO_2/m^2$	Pass
	-25.41 (-45.1%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	55.61	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	54.80	$kWh/m^2/yr$	
	-0.8 (-1.4%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Windows facing East	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 06	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 06
Property	06		

SAP Rating	78 C	**DER**	37.44	**TER**	38.64
Environmental	87 B	**% DER<TER**	3.10		
CO_2 Emissions (t/year)	0.59	**DFEE**	54.80	**TFEE**	55.61
General Requirements Compliance	Pass	**% DFEE<TFEE**	1.46		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	38.64	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	37.44	$kgCO_2/m^2$	Pass
	-1.20 (-3.1%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	55.61	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	54.80	$kWh/m^2/yr$	
	-0.8 (-1.4%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Windows facing East	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 07	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 07
Property	07		

SAP Rating	76 C	**DER**	34.29	**TER**	61.88
Environmental	88 B	**% DER<TER**	44.58		
CO_2 Emissions (t/year)	0.54	**DFEE**	71.15	**TFEE**	72.26
General Requirements Compliance	Pass	**% DFEE<TFEE**	1.54		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	61.88	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	34.29	$kgCO_2/m^2$	Pass
	-27.59 (-44.6%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	72.26	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	71.15	$kWh/m^2/yr$	
	-1.1 (-1.5%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Windows facing East	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 07	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 07
Property	07		

SAP Rating	76 C	**DER**	41.65	**TER**	42.22
Environmental	85 B	**% DER<TER**	1.36		
CO_2 Emissions (t/year)	0.66	**DFEE**	71.15	**TFEE**	72.26
General Requirements Compliance	Pass	**% DFEE<TFEE**	1.54		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	42.22	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	41.65	$kgCO_2/m^2$	Pass
	-0.57 (-1.4%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	72.26	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	71.15	$kWh/m^2/yr$	
	-1.1 (-1.5%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Windows facing East	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 08	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 08
Property	08		

SAP Rating	79 C	**DER**	28.54	**TER**	53.74
Environmental	90 B	**% DER<TER**	46.89		
CO_2 Emissions (t/year)	0.43	**DFEE**	38.99	**TFEE**	39.80
General Requirements Compliance	Pass	**% DFEE<TFEE**	2.02		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	53.74	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	28.54	$kgCO_2/m^2$	Pass
	-25.20 (-46.9%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	39.80	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	38.99	$kWh/m^2/yr$	
	-0.8 (-2.0%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	Average
Windows facing South	2.28 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 08	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 08
Property	08		

SAP Rating	79 C	**DER**	34.59	**TER**	36.93
Environmental	88 B	**% DER<TER**	6.35		
CO_2 Emissions (t/year)	0.52	**DFEE**	38.99	**TFEE**	39.80
General Requirements Compliance	Pass	**% DFEE<TFEE**	2.02		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	36.93	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	34.59	$kgCO_2/m^2$	Pass
	-2.34 (-6.3%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	39.80	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	38.99	$kWh/m^2/yr$	
	-0.8 (-2.0%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass

Based on:

Overshading	Average
Windows facing South	2.28 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 09	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 09
Property	09		

SAP Rating	76 C	**DER**	35.88	**TER**	65.66
Environmental	88 B	**% DER<TER**	45.36		
CO_2 Emissions (t/year)	0.53	**DFEE**	72.44	**TFEE**	75.42
General Requirements Compliance	Pass	**% DFEE<TFEE**	3.94		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	65.66	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	35.88	$kgCO_2/m^2$	Pass
	-29.78 (-45.4%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	75.42	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	72.44	$kWh/m^2/yr$	
	-3.0 (-4.0%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.12 (max. 0.25)	0.12 (max. 0.70)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Windows facing West	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Exposed floor U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 09	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 09
Property	09		

SAP Rating	76 C	**DER**	43.60	**TER**	44.76
Environmental	85 B	**% DER<TER**	2.60		
CO_2 Emissions (t/year)	0.64	**DFEE**	72.44	**TFEE**	75.42
General Requirements Compliance	Pass	**% DFEE<TFEE**	3.94		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	44.76	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	43.60	$kgCO_2/m^2$	Pass
	-1.16 (-2.6%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	75.42	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	72.44	$kWh/m^2/yr$	
	-3.0 (-4.0%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.12 (max. 0.25)	0.12 (max. 0.70)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Windows facing West	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Exposed floor U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 10	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 10
Property	10		

SAP Rating	77 C	**DER**	31.13	**TER**	57.30
Environmental	88 B	**% DER<TER**	45.67		
CO_2 Emissions (t/year)	0.54	**DFEE**	66.18	**TFEE**	69.96
General Requirements Compliance	Pass	**% DFEE<TFEE**	5.40		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	57.30	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	31.13	$kgCO_2/m^2$	Pass
	-26.17 (-45.7%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	69.96	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	66.18	$kWh/m^2/yr$	
	-3.8 (-5.4%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing East	2.40 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 10	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 10
Property	10		

SAP Rating	77 C	**DER**	37.85	**TER**	39.00
Environmental	86 B	**% DER<TER**	2.94		
CO_2 Emissions (t/year)	0.66	**DFEE**	66.18	**TFEE**	69.96
General Requirements Compliance	Pass	**% DFEE<TFEE**	5.40		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	39.00	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	37.85	$kgCO_2/m^2$	Pass
	-1.15 (-2.9%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	69.96	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	66.18	$kWh/m^2/yr$	
	-3.8 (-5.4%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Openings	1.11 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing East	2.40 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	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 11	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 11
Property	11		

SAP Rating	76 C	**DER**	36.82	**TER**	67.30
Environmental	87 B	**% DER<TER**	45.29		
CO_2 Emissions (t/year)	0.58	**DFEE**	85.22	**TFEE**	89.06
General Requirements Compliance	Pass	**% DFEE<TFEE**	4.32		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	67.30	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	36.82	$kgCO_2/m^2$	Pass
	-30.48 (-45.3%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	89.06	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	85.22	$kWh/m^2/yr$	
	-3.9 (-4.4%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.10 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing East	2.10 m², No overhang
Air change rate	6.00 ach
Blinds/curtains	None

Criterion 4 – Building performance consistent with DER and DFEE rate

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 11	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 11
Property	11		

SAP Rating	76 C	**DER**	44.87	**TER**	45.60
Environmental	84 B	**% DER<TER**	1.60		
CO_2 Emissions (t/year)	0.71	**DFEE**	85.22	**TFEE**	89.06
General Requirements Compliance	Pass	**% DFEE<TFEE**	4.32		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	45.60	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	44.87	$kgCO_2/m^2$	Pass
	-0.73 (-1.6%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	89.06	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	85.22	$kWh/m^2/yr$	
	-3.9 (-4.4%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.10 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing East	2.10 m², No overhang
Air change rate	6.00 ach
Blinds/curtains	None

Criterion 4 – Building performance consistent with DER and DFEE rate

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 12	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 12
Property	12		

SAP Rating	76 C	**DER**	33.99	**TER**	61.48
Environmental	87 B	**% DER<TER**	44.72		
CO_2 Emissions (t/year)	0.60	**DFEE**	78.85	**TFEE**	82.02
General Requirements Compliance	Pass	**% DFEE<TFEE**	3.86		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	61.48	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	33.99	$kgCO_2/m^2$	Pass
	-27.49 (-44.7%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	82.02	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	78.85	$kWh/m^2/yr$	
	-3.1 (-3.8%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Air change rate	6.00 ach		
Blinds/curtains			

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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 12	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 12
Property	12		

SAP Rating	76 C	**DER**	41.31	**TER**	41.81
Environmental	84 B	**% DER<TER**	1.19		
CO_2 Emissions (t/year)	0.73	**DFEE**	78.85	**TFEE**	82.02
General Requirements Compliance	Pass	**% DFEE<TFEE**	3.86		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	41.81	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	41.31	$kgCO_2/m^2$	Pass
	-0.50 (-1.2%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	82.02	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	78.85	$kWh/m^2/yr$	
	-3.1 (-3.8%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.08 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight		Pass

Based on:

Overshading	Average		
Air change rate	6.00 ach		
Blinds/curtains			

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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 13	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 13
Property	13		

SAP Rating	76 C	**DER**	33.06	**TER**	59.65
Environmental	87 B	**% DER<TER**	44.57		
CO_2 Emissions (t/year)	0.58	**DFEE**	75.22	**TFEE**	76.86
General Requirements Compliance	Pass	**% DFEE<TFEE**	2.13		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	59.65	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	33.06	$kgCO_2/m^2$	Pass
	-26.59 (-44.6%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	76.86	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	75.22	$kWh/m^2/yr$	
	-1.7 (-2.2%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.10 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs	Pass
Hot water controls	No cylinder	

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing South	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 13	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 13
Property	13		

SAP Rating	76 C	**DER**	40.22	**TER**	40.54
Environmental	84 B	**% DER<TER**	0.79		
CO_2 Emissions (t/year)	0.71	**DFEE**	75.22	**TFEE**	76.86
General Requirements Compliance	Pass	**% DFEE<TFEE**	2.13		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	40.54	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	40.22	$kgCO_2/m^2$	Pass
	-0.32 (-0.8%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	76.86	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	75.22	$kWh/m^2/yr$	
	-1.7 (-2.2%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.17 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.10 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs	Pass
Hot water controls	No cylinder	

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing South	1.35 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	4.00 (design value)		
Maximum	10.0		Pass

10 Key features

Party wall U-value	0.00	W/m²K
Roof U-value	0.12	W/m²K
Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 14	**Issued on Date**	22/07/2022
Assessment Reference	Be Green	**Prop Type Ref**	Flat 14
Property	14		

SAP Rating	74 C	**DER**	38.74	**TER**	70.29
Environmental	85 B	**% DER<TER**	44.88		
CO_2 Emissions (t/year)	0.67	**DFEE**	103.67	**TFEE**	107.07
General Requirements Compliance	Pass	**% DFEE<TFEE**	3.18		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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 (c)		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	70.29	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	38.74	$kgCO_2/m^2$	Pass
	-31.55 (-44.9%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	107.07	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	103.67	$kWh/m^2/yr$	
	-3.4 (-3.2%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.15 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing North	5.64 m², No overhang
Air change rate	6.00 ach
Blinds/curtains	None

Criterion 4 – Building performance consistent with DER and DFEE rate

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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

BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)

Design SAP
elmhurst energy

Property Reference	0221 LMR B01 14	**Issued on Date**	22/07/2022
Assessment Reference	Be Lean	**Prop Type Ref**	Flat 14
Property	14		

SAP Rating	74 C	**DER**	47.34	**TER**	47.34
Environmental	82 B	**% DER<TER**	0.00		
CO_2 Emissions (t/year)	0.82	**DFEE**	103.67	**TFEE**	107.07
General Requirements Compliance	Pass	**% DFEE<TFEE**	3.18		

Assessor Details	Miss Jessica James, Jessica James, Tel: 02079938507, jess@jawsustainability.com	**Assessor ID**	R564-0001
Client			

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	Mains gas (c)		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	47.34	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	47.34	$kgCO_2/m^2$	Pass
	0.00 (0.0%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	107.07	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	103.67	$kWh/m^2/yr$	
	-3.4 (-3.2%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.17 (max. 0.70)	Pass
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	Pass
Openings	1.15 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Community heating scheme	-
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	No cylinder	

6 Controls

Space heating controls	Flat rate charging, programmer and TRVs		Pass
Hot water controls	No cylinder		

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 summer

9 Summertime temperature

Overheating risk (Thames Valley)	Slight	Pass

Based on:

Overshading	Average
Windows facing North	5.64 m², No overhang
Air change rate	6.00 ach
Blinds/curtains	None

Criterion 4 – Building performance consistent with DER and DFEE rate

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	4.00 (design value)	
Maximum	10.0	Pass

10 Key features

Roof U-value	0.12	W/m²K
Door U-value	1.00	W/m²K

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