

# SAP Input

## Property Details: Top Two storey maisonette

Address: Top Two storey maisonette , 69 High Street , Highgate, N6  
 Located in: England  
 Region: Thames valley  
 UPRN: 123456789012  
 Date of assessment: 13 January 2016  
 Date of certificate: 19 May 2016  
 Assessment type: New dwelling design stage  
 Transaction type: New dwelling  
 Tenure type: Unknown  
 Related party disclosure: No related party  
 Thermal Mass Parameter: Calculated 219.82  
 Dwelling designed to use less than 125 litres per Person per day: True

## Property description:

Dwelling type: Maisonette  
 Detachment:  
 Year Completed: 2016  
 Floor Location: Floor area: Storey height:  
 Floor 0 3.42 m<sup>2</sup> 2.72 m  
 Floor 1 4.25 m<sup>2</sup> 2.72 m  
 Floor 2 60.35 m<sup>2</sup> 2.72 m  
 Floor 3 51.1 m<sup>2</sup> 2.43 m  
 Living area: 14.98 m<sup>2</sup> (fraction 0.126)  
 Front of dwelling faces: North

## Opening types:

Name:	Source:	Type:	Glazing:	Argon:	Frame:
stairs	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
first floor stairs	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
first floor 1	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
first floor 2	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
first floor 3	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 1	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 2	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 3	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 4	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 5	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
fiirst floor 1	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
fiirst floor 2	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
fiirst floor 3	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
fiirst floor 4	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
fiirst floor 5	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 1	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 2	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 3	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 4	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
first floor 1	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
2nd floor 1	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
first floor 1	Manufacturer	Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
roof lite 1	SAP 2009	Roof Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break
roof lite 2	SAP 2009	Roof Windows	low-E, En = 0.05, soft coat	Yes	Metal, thermal break

Name:	Gap:	Frame Factor:	g-value:	U-value:	Area:	No. of Openings:
stairs	16mm or more	0.8	0.63	1.1	1.58	1
first floor stairs	16mm or more	0.8	0.63	1.1	1.58	1

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first floor 1	16mm or more	0.8	0.63	1.1	1.58	1
first floor 2	16mm or more	0.8	0.63	1.1	1.58	1
first floor 3	16mm or more	0.8	0.63	1.1	4.1	1
2nd floor 1	16mm or more	0.8	0.63	1.1	1.58	1
2nd floor 2	16mm or more	0.8	0.63	1.1	4.94	1
2nd floor 3	16mm or more	0.8	0.63	1.1	1.58	1
2nd floor 4	16mm or more	0.8	0.63	1.1	1.58	1
2nd floor 5	16mm or more	0.8	0.63	1.1	1.58	1
fiirst floor 1	16mm or more	0.8	0.63	1.1	1.68	1
fiirst floor 2	16mm or more	0.8	0.63	1.1	1.18	1
fiirst floor 3	16mm or more	0.8	0.63	1.1	1.64	1
fiirst floor 4	16mm or more	0.8	0.63	1.1	1.64	1
fiirst floor 5	16mm or more	0.8	0.63	1.1	2.21	1
2nd floor 1	16mm or more	0.8	0.63	1.1	1.68	1
2nd floor 2	16mm or more	0.8	0.63	1.1	1.64	1
2nd floor 3	16mm or more	0.8	0.63	1.1	1.64	1
2nd floor 4	16mm or more	0.8	0.63	1.1	1.64	1
first floor 1	16mm or more	0.8	0.63	1.1	1.11	1
2nd floor 1	16mm or more	0.8	0.63	1.1	4.41	1
first floor 1	16mm or more	0.8	0.63	1.1	1.95	1
roof lite 1	16mm or more	0.8	0.63	2	2.34	1
roof lite 2	16mm or more	0.8	0.63	2	0.95	1

Name:	Type-Name:	Location:	Orient:	Width:	Height:
stairs		stairs	North	0.75	2.1
first floor stairs		first floor	North	0.75	2.1
first floor 1		first floor	North	0.75	2.1
first floor 2		first floor	North	0.75	2.1
first floor 3		first floor	North	1.95	2.1
2nd floor 1		second floor	North	0.75	2.1
2nd floor 2		second floor	North	2.35	2.1
2nd floor 3		second floor	North	0.75	2.1
2nd floor 4		second floor	North	0.75	2.1
2nd floor 5		second floor	North	0.75	2.1
fiirst floor 1		first floor	East	0.8	2.1
fiirst floor 2		first floor	East	0.56	2.1
fiirst floor 3		first floor	East	0.78	2.1
fiirst floor 4		first floor	East	0.78	2.1
fiirst floor 5		first floor	East	1.05	2.1
2nd floor 1		second floor	East	0.8	2.1
2nd floor 2		second floor	East	0.78	2.1
2nd floor 3		second floor	East	0.78	2.1
2nd floor 4		second floor	East	0.78	2.1
first floor 1		first floor	South	0.53	2.1
2nd floor 1		second floor	South	2.1	2.1
first floor 1		first floor	West	0.93	2.1
roof lite 1		flat roof	Unspecified	0.82	2.85
roof lite 2		flat roof	Unspecified	0.975	0.975

Overshading: More than average

## Opaque Elements:

Type:	Gross area:	Openings:	Net area:	U-value:	Ru value:	Curtain wall:	Kappa:
<u>External Elements</u>							
entrance	14.198	0	14.2	0.2	0	False	14
stairs	10.934	1.58	9.35	0.2	0	False	14
first floor	122.155	20.25	101.9	0.2	0	False	14
second floor	100.821	22.27	78.55	0.2	0	False	14

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flat roof	60.35	3.29	57.06	0.16	0	9
ground floor	3.42			0.16		110
<u>Internal Elements</u>						
first floor	142.202					100
second floor	15.115					100
ceiling	51.1					40
floor	51.1					40
<u>Party Elements</u>						
entrance	7.725					20
stairs	11.043					20
party floor	56.1					40

## Thermal bridges:

Thermal bridges: User-defined (individual PSI-values) Y-Value = 0.087

Length	PSI-value
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## Ventilation:

Pressure test: Yes (As designed)

Ventilation: Natural ventilation (extract fans)

Number of chimneys: 0

Number of open flues: 0

Number of fans: 4

Number of sides sheltered: 1

Pressure test: 5.1

## Main heating system:

Main heating system: Central heating systems with radiators or underfloor heating

Gas boilers and oil boilers

Fuel: mains gas

Info Source: Boiler Database

Database: (rev 393, product index 010324) SEDBUK2009 89.0%

Brand name: Vaillant

Model: Ecotec Plus

Model qualifier: 630

(Regular boiler)

Systems with radiators

Pump in heat space: Yes

## Main heating Control:

Main heating Control: Time and temperature zone control by suitable arrangement of plumbing and electrical services

Control code: 2110

Boiler interlock: Yes

## Secondary heating system:

Secondary heating system: None

## Water heating:

Water heating: From main heating system

Water code: 901

Fuel :mains gas

Hot water cylinder

Cylinder volume: 210 litres

Cylinder insulation: Factory 80 mm

Primary pipework insulation: True

Cylinderstat: True

Cylinder in heated space: True

Solar panel: False

## Others:

Electricity tariff: standard tariff

In Smoke Control Area: Unknown

## SAP Input

Conservatory:	No conservatory
Low energy lights:	100%
Terrain type:	Dense urban
EPC language:	English
Wind turbine:	No
Photovoltaics:	<u>Photovoltaic 1</u>
	Installed Peak power: 0.4
	Tilt of collector: 30°
	Overshading: Significant
	Collector Orientation: South
Assess Zero Carbon Home:	No