

Project Information

Building type End-terrace house

Reference

Date

Project 327 Greystoke Avenue
Bristol
BS10 6BD

SAP 2009 worksheet for New extension to existing dwelling - calculation of energy ratings

1. Overall dwelling dimensions

	Area (m²)	Av. Storey height (m)	Volume (m³)	
Ground floor (1)	41.00	2.40	98.40	(3a)
Ground floor (2)	20.00	2.40	48.00	(3b)
First floor	41.00	2.70	110.70	(3c)
Second floor	24.00	1.80	43.20	(3d)
	126.00		300.30	(4) (5)

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2. Ventilation rate

	main + secondary + other heating		m³ per hour										
Number of chimneys	0 + 0 + 0	x 40	0.00	(6a)									
Number of open flues	0 + 0 + 0	x 20	0.00	(6b)									
Number of intermittent fans	3	x 10	30.00	(7a)									
Number of passive vents	0	x 10	0.00	(7b)									
Number of flueless gas fires	0	x 40	0.00	(7c)									
			0.10	(8)									
Pressure test, assumed q50		15.00		(17)									
Air permeability			0.85	(18)									
			2.00	(19)									
			0.85	(20)									
Infiltration rate incorporating shelter factor			0.72	(21)									
Infiltration rate modified for monthly wind speed													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Monthly average wind speed from Table 7													
	5.40	5.10	5.10	4.50	4.10	3.90	3.70	3.70	4.20	4.50	4.80	5.10	
													54.10
													(22)
Wind Factor													
	1.35	1.27	1.27	1.13	1.02	0.97	0.93	0.93	1.05	1.13	1.20	1.27	
													13.53
													(22a)
Adjusted infiltration rate (allowing for shelter and wind speed)													
	0.98	0.92	0.92	0.81	0.74	0.70	0.67	0.67	0.76	0.81	0.87	0.92	
													9.77
													(22b)
Ventilation : natural ventilation, intermittent extract fans													
Effective air change rate													
	0.98	0.92	0.92	0.83	0.77	0.75	0.72	0.72	0.79	0.83	0.88	0.92	(25)

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3. Heat losses and heat loss parameter

Element	Gross area, m ²	Openings m ²	Net area A, m ²	U-value W/m ² K	A x U W/K	kappa-value kJ/m ² K	A x K kJ/K	
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg			1.730	1.50 (1.60)	2.60			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg			1.730	1.50 (1.60)	2.60			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg			1.260	1.50 (1.60)	1.89			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg			1.260	1.50 (1.60)	1.89			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg			3.700	1.94 (2.10)	7.17			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg			1.880	1.94 (2.10)	3.64			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg			1.250	1.94 (2.10)	2.42			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg			1.880	1.94 (2.10)	3.64			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg			1.880	1.94 (2.10)	3.64			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg			0.660	1.94 (2.10)	1.28			(27)
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (East) dg			0.630	1.94 (2.10)	1.22			(27)
Solid door dg			1.890	2.10	3.97			(26)
Full glazed door - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg			3.670	2.10	7.71			(26)
Pitched roofs insulated between joists			37.00	0.11	4.07	9.00	333.00	(30)

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4. Water heating energy requirements

												kWh/year	
Assumed occupancy, N												2.88	(42)
Annual average hot water usage in litres per day Vd,average												108.10	(43)
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Hot water usage in litres per day for each month													
118.90	114.58	110.26	105.93	101.61	97.29	97.29	101.61	105.93	110.26	114.58	118.90	(44)	
Energy content of hot water used													
176.75	154.59	159.52	139.08	133.45	115.15	106.71	122.45	123.91	144.41	157.63	171.18		
Energy content (annual)												1704.83	(45)
Distribution loss													
26.51	23.19	23.93	20.86	20.02	17.27	16.01	18.37	18.59	21.66	23.64	25.68	(46)	
Cylinder volume, l												210.00	(47)
Manufacturer's declared cylinder loss factor (kWh/day)												1.91	(47)
Temperature Factor												0.5400	(48)
Energy lost from hot water cylinder (kWh/day)												1.03	(55)
Total storage loss													
31.97	28.88	31.97	30.94	31.97	30.94	31.97	31.97	30.94	31.97	30.94	31.97	(56)	
Net storage loss													
31.97	28.88	31.97	30.94	31.97	30.94	31.97	31.97	30.94	31.97	30.94	31.97	(57)	
Primary circuit loss (annual)												360.00	(58)
Primary loss													
30.58	27.62	30.58	29.59	30.58	29.59	30.58	30.58	29.59	30.58	29.59	30.58	(59)	
Total heat required for water heating calculated for each month													
239.30	211.09	222.07	199.61	196.00	175.69	169.26	185.00	184.44	206.96	218.16	233.73	(62)	
Output from water heater for each month, kWh/month													
239.30	211.09	222.07	199.61	196.00	175.69	169.26	185.00	184.44	206.96	218.16	233.73	(64)	
												2441.29	(64)
Heat gains from water heating, kWh/month													
108.81	96.60	103.08	94.67	94.41	86.71	85.52	90.75	89.63	98.05	100.84	106.96	(65)	

SAP 2009 worksheet for New extension to existing dwelling - calculation of energy ratings

5. Internal gains

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Metabolic gains, Watts												
173.03	173.03	173.03	173.03	173.03	173.03	173.03	173.03	173.03	173.03	173.03	173.03	(66)
Lighting gains												
69.83	62.02	50.44	38.19	28.54	24.10	26.04	33.85	45.43	57.68	67.32	71.77	(67)
Appliances gains												
437.06	441.60	430.17	405.84	375.12	346.26	326.97	322.44	333.87	358.20	388.91	417.78	(68)
Cooking gains												
55.19	55.19	55.19	55.19	55.19	55.19	55.19	55.19	55.19	55.19	55.19	55.19	(69)
Pumps and fans gains												
10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	(70)
Losses e.g. evaporation (negative values)												
-115.35	-115.35	-115.35	-115.35	-115.35	-115.35	-115.35	-115.35	-115.35	-115.35	-115.35	-115.35	(71)
Water heating gains												
146.25	143.75	138.55	131.48	126.90	120.44	114.95	121.98	124.48	131.79	140.05	143.76	(72)
Total internal gains												
776.00	770.23	742.02	698.37	653.43	613.66	590.82	601.13	626.64	670.54	719.15	756.17	(73)

6. Solar gains (calculation for January)

	Area & Flux	g & FF	Shading	Gains
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 1.730 47.32	0.63 x 0.70	0.77	25.0203
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.730 10.73	0.63 x 0.70	0.77	5.6712
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.260 10.73	0.63 x 0.70	0.77	4.1304
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.260 10.73	0.63 x 0.70	0.77	4.1304
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 3.700 47.32	0.63 x 0.70	0.77	53.5117
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 1.880 47.32	0.63 x 0.70	0.77	27.1897
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 1.250 47.32	0.63 x 0.70	0.77	18.0783
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.880 10.73	0.63 x 0.70	0.77	6.1629
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.880 10.73	0.63 x 0.70	0.77	6.1629

Lighting calculations

Area	g	FF x Shading
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SAP 2009 worksheet for New extension to existing dwelling - calculation of energy ratings

6. Solar gains (calculation for January)

	Area & Flux	g & FF	Shading	Gains
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 0.660 10.73	0.63 x 0.70	0.77	2.1636
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (East) dg	0.9 x 0.630 19.87	0.63 x 0.70	0.77	3.8262
Solid door dg	0.9 x 1.890 0.00	0.00 x 0.70	0.77	0.0000
Full glazed door - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 3.670 10.73	0.63 x 0.70	0.77	12.0307
Total solar gains, January				168.08 (83-1)

Solar gains

168.08	286.11	384.02	498.64	589.04	624.35	600.34	522.81	430.70	325.74	201.29	143.86	(83)
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Total gains

944.08	1056.34	1126.04	1197.01	1242.47	1238.00	1191.17	1123.94	1057.34	996.28	920.44	900.03	(84)
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Lighting calculations

	Area	g	FF x Shading	
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 1.73	0.80	0.70 x 0.83	0.72
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.73	0.80	0.70 x 0.83	0.72
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.26	0.80	0.70 x 0.83	0.53
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.26	0.80	0.70 x 0.83	0.53
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 3.70	0.80	0.70 x 0.83	1.55
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 1.88	0.80	0.70 x 0.83	0.79
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (South) dg	0.9 x 1.25	0.80	0.70 x 0.83	0.52
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.88	0.80	0.70 x 0.83	0.79
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 1.88	0.80	0.70 x 0.83	0.79
Window - Double-glazed, air-filled, low-E, En=0.1, soft coat (North) dg	0.9 x 0.66	0.80	0.70 x 0.83	0.28

Lighting calculations

Window - Double-glazed, air-filled, low-E, Area 0.9 x 0.63 g 0.80 FF x Shading 0.70 x 0.83 0.26
 En=0.1, soft coat (East)
 dg
 GL = 7.47 / 126.00 = 0.059
 C1 = 0.500
 C2 = 1.027
 EI = 493

7. Mean internal temperature

Temperature during heating periods in the living area, Th1 (°C) 21.00 (85)
 Heating system responsiveness 1.00

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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12.17	12.39	12.39	12.82	13.08	13.21	13.33	13.33	13.02	12.82	12.61	12.39
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alpha

1.81	1.83	1.83	1.85	1.87	1.88	1.89	1.89	1.87	1.85	1.84	1.83
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Utilisation factor for gains for living area

0.96	0.95	0.93	0.90	0.84	0.75	0.62	0.64	0.81	0.90	0.95	0.96	(86)
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Mean internal temperature in living area T1

17.12	17.41	17.97	18.62	19.48	20.19	20.64	20.62	20.00	19.03	17.89	17.24	(87)
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Temperature during heating periods in rest of dwelling Th2

19.16	19.19	19.19	19.23	19.26	19.27	19.29	19.29	19.25	19.23	19.21	19.19	(88)
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Utilisation factor for gains for rest of dwelling

0.95	0.93	0.91	0.87	0.79	0.65	0.44	0.46	0.72	0.87	0.93	0.95	(89)
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Mean internal temperature in the rest of dwelling T2

15.81	16.10	16.66	17.33	18.17	18.82	19.17	19.17	18.66	17.73	16.60	15.94	(90)
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Living area fraction (24.00 / 126.00)

0.19 (91)

Mean internal temperature (for the whole dwelling)

16.06	16.35	16.91	17.57	18.42	19.08	19.45	19.44	18.91	17.98	16.84	16.19	(92)
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Apply adjustment to the mean internal temperature, where appropriate

16.06	16.35	16.91	17.57	18.42	19.08	19.45	19.44	18.91	17.98	16.84	16.19	(93)
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SAP 2009 worksheet for New extension to existing dwelling - calculation of energy ratings

8. Space heating requirement

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Utilisation factor for gains												
0.92	0.91	0.88	0.84	0.76	0.64	0.46	0.48	0.70	0.84	0.91	0.93	(94)
Useful gains												
872.88	958.86	991.71	1007.99	948.49	790.93	548.14	537.20	742.13	833.06	834.15	834.04	(95)
Monthly average external temperature												
4.50	5.00	6.80	8.70	11.70	14.60	16.90	16.90	14.30	10.80	7.00	4.90	(96)
Heat loss rate for mean internal temperature												
3323.7	3206.1	2855.9	2423.4	1797.22	1186.39	670.26	667.34	1240.33	1961.17	2733.0	3187.9	(97)
Space heating requirement for each month, kWh/month												
1823.37	1510.16	1386.94	1019.08	631.46	-	-	-	-	839.32	1367.14	1751.25	
Total space heating requirement per year (kWh/year) (October to May)										10328.71		(98)
Space heating requirement per m ² (kWh/m ² /year)										81.97		(99)

8c. Space cooling requirement - not applicable

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9a. Energy requirements

												kWh/year	
No secondary heating system selected													
Fraction of space heat from main system(s)										1.0000		(202)	
Efficiency of main heating system										92.70%		(206)	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Space heating requirement													
1823.37	1510.16	1386.94	1019.08	631.46	-	-	-	-	839.32	1367.14	1751.25		(98)
Appendix Q - monthly energy saved (main heating system 1)													
0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00	0.00	0.00		(210)
Space heating fuel (main heating system 1)													
1966.96	1629.08	1496.16	1099.33	681.18	-	-	-	-	905.41	1474.80	1889.15		(211)
Appendix Q - monthly energy saved (main heating system 2)													
0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00	0.00	0.00		(212)
Space heating fuel (main heating system 2)													
0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00	0.00	0.00		(213)
Appendix Q - monthly energy saved (secondary heating system)													
0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00	0.00	0.00		(214)
Space heating fuel (secondary)													
0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00	0.00	0.00		(215)
Water heating													
Water heating requirement													
239.30	211.09	222.07	199.61	196.00	175.69	169.26	185.00	184.44	206.96	218.16	233.73		(64)
Efficiency of water heater												79.00	(216)
90.87	90.77	90.53	90.14	89.04	79.00	79.00	79.00	79.00	89.63	90.54	90.84		(217)
Water heating fuel													
263.34	232.55	245.29	221.44	220.12	222.39	214.25	234.17	233.47	230.91	240.96	257.28		(219)
Annual totals												kWh/year	
Space heating fuel used, main system 1												11142.08	(211)
Space heating fuel (secondary)												0.00	(215)
Water heating fuel												2816.17	(219)
Electricity for pumps, fans and electric keep-hot													
central heating pump												130.00	(230c)
boiler with a fan-assisted flue												45.00	(230e)
Total electricity for the above, kWh/year												175.00	(231)
Electricity for lighting (100.00% fixed LEL)												493.29	(232)
Energy saving/generation technologies													
Appendix Q -													
Energy saved or generated ():												0.000	(236a)
Energy used ():												0.000	(237a)
Total delivered energy for all uses												14626.54	(238)

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10a. Fuel costs using Table 12 prices

	kWh/year	Fuel price p/kWh	£/year	
Space heating - main system 1	11142.082	3.100	345.40	(240)
Space heating - main system 2	0.000	0.000	0.00	(241)
Water heating cost	2816.17	3.100	87.30	(247)
Mech vent fans cost	0.000	11.460	0.00	(249)
Pump/fan energy cost	175.000	11.460	20.05	(249)
Energy for lighting	493.286	11.460	56.53	(250)
Additional standing charges			106.00	(251)
Electricity generated - PVs	0.000	0.000	0.00	(252)
Appendix Q - Energy saved or generated ():	0.000	0.000	0.00	(253)
Energy used ():	0.000	0.000	0.00	(254)
Total energy cost			615.29	(255)

11a. SAP rating

		0.47	(256)
		1.69	(257)
SAP value		76.41	
		76	(258)
SAP band		C	

12a. Carbon dioxide emissions

	Energy kWh/year	Emission factor kg CO2/kWh	Emissions kg CO2/year	
Space heating, main system 1	11142.08	0.198	2206.13	(261)
Space heating, main system 2	0.00	0.000	0.00	(262)
Space heating, secondary	0.00	0.517	0.00	(263)
Water heating	2816.17	0.198	557.60	(264)
Space and water heating			2763.73	(265)
Electricity for pumps and fans	175.00	0.517	90.48	(267)
Electricity for lighting	493.29	0.517	255.03	(268)
Electricity generated - PVs	0.00	0.529	0.00	(269)
Electricity generated - µCHP	0.00	0.000	0.00	(269)
Appendix Q - Energy saved ():	0.00	0.000	0.00	(270)
Energy used ():	0.00	0.000	0.00	(271)
Total CO2, kg/year			3109.24	(272)
			kg/m²/year	
CO2 emissions per m²			24.68	(273)
EI value			75.64	(273a)
EI rating			76	(274)
EI band			C	

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13a. Primary energy

	Energy kWh/year	Primary factor	P. Energy (kWh/year)	
Space heating, main	11142.08	1.020	11364.92	(261)
Space heating, main system 2	0.00	0.000	0.00	(262)
Space heating, secondary	0.00	2.920	0.00	(263)
Water heating	2816.17	1.020	2872.50	(264)
Space and water heating			14237.42	(265)
Electricity for pumps/fans	175.00	2.920	511.00	(267)
Electricity for lighting	493.29	2.920	1440.40	(268)
Electricity generated - PV	0.00	2.920	0.00	(269)
Electricity generated - µCHP	0.00	0.000	0.00	(269)
Electricity generated - wind	0.00	2.920	0.00	(269)
New energy-saving technology :				
Energy saved ():	0.00	0.000	0.00	(270)
Energy used ():	0.00	0.000	0.00	(271)
Primary energy kWh/year			16188.82	(272)
Primary energy kWh/m²/year			128.48	(273)

Project Information

Building type End-terrace house

Reference

Date

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Bristol
BS10 6BD

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New extension to existing dwelling

1 TER and DER

Fuel for main heating system: Gas (mains) (fuel factor = 1.00)

Target Carbon Dioxide Emission Rate

TER = 16.34

Dwelling Carbon Dioxide Emission Rate

DER = 25.78

Fail

Excess emissions = 9.44kg/m² (57.8%)

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

2b Fabric U-values

<u>Element</u>	<u>Average</u>	<u>Highest</u>	
Wall	0.80 (max. 0.30)	1.20 (max. 0.70)	Fail
Floor	0.30 (max. 0.25)	0.35 (max. 0.70)	Fail
Roof	0.14 (max. 0.20)	0.18 (max. 0.35)	OK
Openings	1.96 (max. 2.00)	2.10 (max. 3.30)	OK

3 Air permeability

Air permeability at 50 pascals:

15.00

Fail

Maximum :

10.00

4 Heating efficiency

Main heating system:

Boiler and radiators, mains gas

Worcester GREENSTAR

Source of efficiency: from boiler database

Worcester GREENSTAR 24Ri ErP+

Efficiency: 89.7% SEDBUK2009

Minimum: 88.0%

OK

Secondary heating system:

None -

5 Cylinder insulation

Hot water storage	Manufacturer's declared cylinder loss factor (kWh/day)	1.91	
	Permitted by DBSCG	2.30	OK
Primary pipework insulated	No		Fail

6 Controls

(Also refer to "Domestic Building Services Compliance Guide" by the DCLG)

Space heating controls	Programmer + roomstat + TRVs		OK
	Cylinderstat - Yes		OK
	Independent timer for DHW - Yes		OK
Boiler Interlock	Yes		OK

7 Low energy lights

Percentage of fixed lights with low-energy fittings: 100.0%	
Minimum: 75.0%	OK

8 Mechanical ventilation

Not applicable

9 Summertime temperature

Overheating risk (Severn Valley):		OK
	Not significant	OK

Based on:

Thermal mass parameter :	100.00
Overshading :	Average or unknown (20-60 % sky blocked)
Orientation : South	
Ventilation rate :	8.00
Blinds/curtains :	
None with blinds/shutters closed 0.00% of daylight hours	

10 Key features

Party wall U-value 0.00 W/m²K
Pitched roofs insulated between joists U-value 0.11 W/m²K

Predicted Energy Assessment

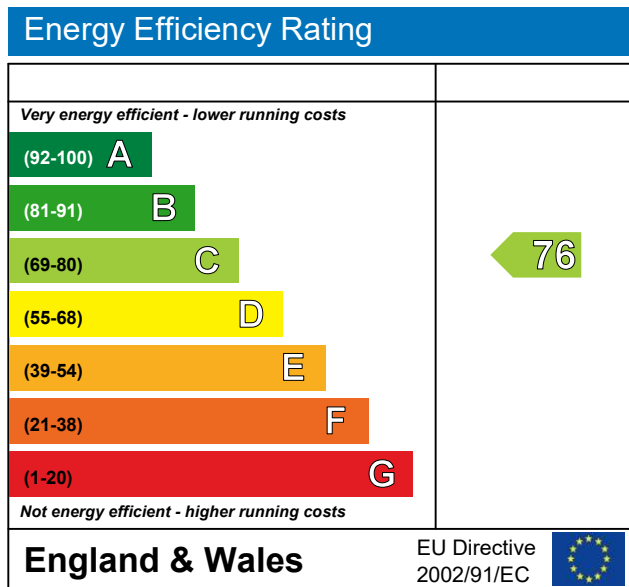
327 Greystoke Avenue
Bristol
BS10 6BD

Dwelling type:
Date of assessment:
Produced by
Total floor area:

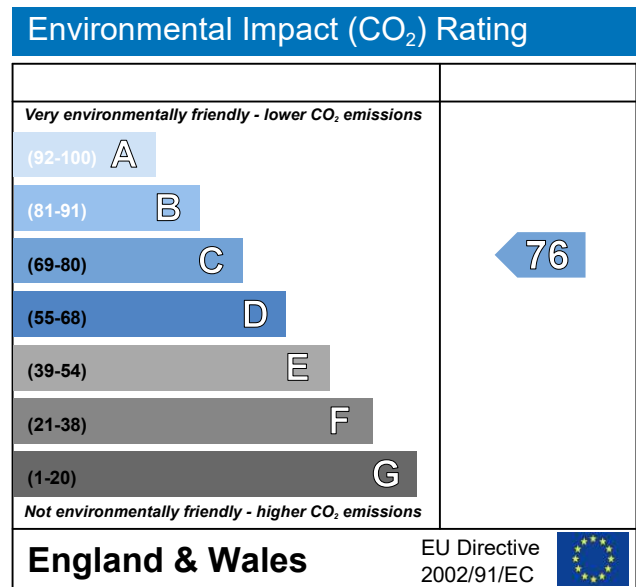
End-terrace house
11 February 2022
Complete Energy Consultancy Ltd
126 m²

This is a Predicted Energy Assessment for a property which is not yet complete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, an Energy Performance Certificate is required providing information about the energy performance of the completed property.

Energy performance has been assessed using the SAP 2009 methodology and is rated in terms of the energy use per square metre of floor area, energy efficiency based on fuel costs and environmental impact based on carbon dioxide (CO₂) emissions.



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



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.