

APPENDIX A – SAP ASSESSMENTS –



SAP Worksheet: Design - Draft

This Design submission has been carried out by an Authorised SAP Assessor. It has been prepared from plans and specifications and may not reflect the property as constructed.

Assessor Name Mrs Azita Ghandizadeh Dezfouli Assessor Number 2342
Client
Date Last Modified 17/09/2008
Address Unit 8, 1-7 Mill Lane, London, NW6

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1. Overall dwelling dimensions

	Area (m ²)	Average storey height (m)	Volume (m ³)
Ground Floor	67.74 (1a)	2.45	165.96 (1)
First Floor	73.83 (2a)	2.52	186.05 (2)
Total floor area (1a)+(2a)+(3a)+(4a)+(4b)+(4d)+(4f)+(4h) =	141.57 (5)		
Dwelling volume		(1)+(2)+(3)+(4)+(4c)+(4e)+(4g)+(4i) =	352.01 (6)

2. Ventilation rate

	m ³ per hour	Air changes per hour
Number of chimneys	0 × 40 = 0 (7)	
Number of open flues	0 × 20 = 0 (8)	
Number of intermittent fans or passive vents	0 × 10 = 0 (9)	
Number of flueless gas fires	0 × 40 = 0 (9a)	
Infiltration due to chimneys, flues and fans = (7)+(8)+(9)+(9a) =	0	÷ box (6) = 0.00 (10)
If a pressurisation test has been carried out, proceed to box (19)		
Number of storeys in the dwelling	2 (11)	
Additional infiltration		[(11) - 1] × 0.1 = N/A (12)
Structural infiltration: 0.25 for steel or timber frame or 0.35 for masonry construction		N/A (13)
If suspended wooden floor, enter 0.2 (unsealed) or 0.1 (sealed), else enter 0		N/A (14)
If no draught lobby, enter 0.05, else enter 0		N/A (15)
Percentage of windows and doors draught stripped	N/A (16)	
Enter 100 in box (16) for new dwellings which are to comply with Building Regulations		
Window infiltration	0.25 - [0.2 × (16) ÷ 100] =	N/A (17)
Infiltration rate	(10)+(12)+(13)+(14)+(15)+(17) =	N/A (18)

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If based on air permeability value, then $[-0.20] + (10)$ in box (19), otherwise $(19) = (18)$

0.25 (19)

Air permeability value applies if a pressurisation test has been done or a degree air permeability is being used

Number of sides on which sheltered

3 (20)

(Enter 2 in box (20) for new dwellings where location is not shown)

Shelter factor

$$1 - [0.075 \times (20)] =$$

0.78 (21)

Adjusted infiltration rate

$$(19) \times (21) =$$

0.19 (22)

Calculate effective air change rate for the applicable case

a) If balanced whole house mechanical ventilation with heat recovery

$$(22) + 0.17 =$$

0.36 (23)

b) If balanced whole house mechanical ventilation without heat recovery

$$(22) + 0.5 =$$

N/A (23a)

c) If whole house extract ventilation or positive input ventilation from outside

if $(22) < 0.25$, then $(23b) = 0.5$; otherwise $(23b) = 0.25 + (22)$

N/A (23b)

d) If natural ventilation or whole house positive input ventilation from loft

if $(22) \geq 1$, then $(24) = (22)$; otherwise $(24) = 0.5 + [(22)^2 \times 0.5]$

N/A (24)

Effective air change rate - enter (23) or (23a) or (23b) or (24) in box (25)

0.36 (25)

3. Heat losses and heat loss parameter

ELEMENT

Area (m²)

U - value

AXU (W/K)

Doors

1.89

×

3.00

=

5.67 (26)

Windows *

18.90

×

1.42

=

26.75 (27)

Above Unheated Basement Floor

72.27

×

0.15

=

10.84 (31)

Walls

109.73

×

0.20

=

21.95 (29)

Roof

73.83

×

0.15

=

11.07 (30)

Total area of elements ΣA , m²

276.63

(32)

* for windows and rooflights, use effective window U-value calculated as given in paragraph 3.2

Fabric heat loss, W/K

$$(26) + (27) + (27a) + (27b) + (28) + (29) + (29a) + (30) + (30a) + (31) =$$

76.28 (33)

Thermal bridges - $\Sigma (l \times \Psi)$ calculated using Appendix K

if details of thermal bridging are not known calculate $\Psi \times (32)$ [see Appendix K] and enter in box (34)

22.13 (34)

Total fabric heat loss

$$(33) + (34) =$$

98.41 (35)

Ventilation heat loss

$$(25) \times 0.33 \times (6) =$$

42.25 (36)

Heat loss coefficient, W/K

$$(35) + (36) =$$

140.66 (37)

Heat loss parameter (HLP), W/m²K

$$(37) \div (5) =$$

0.99 (38)

4. Water heating energy requirement

kWh/year

Energy content of hot water used from Table 1 column (b)

2589.68 (39)

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Distribution loss from Table 1 column (c)		457.00	(40)
<i>If instantaneous water heating at point of use, enter "0" in boxes (40) to (45)</i>			
<i>For community heating use Table 1 (c) whether or not hot water tank is present</i>			
Water storage loss:			
a) If manufacturer's declared loss factor is known (kWh/day):		N/A	(41)
Temperature factor from Table 2b		N/A	(41a)
Energy lost from water storage, kWh/year	$(41) \times (41a) \times 365 =$	N/A	(42)
b) If manufacturer's declared cylinder loss factor is not known:			
Cylinder volume (litres) including any solar storage within same cylinder		300.00	(43)
<i>If community heating and no tank in dwelling, enter 110 litres in box (43)</i>			
<i>Otherwise, if no stored hot water (this includes instantaneous combi boilers), enter '0' in box (43)</i>			
Hot water storage loss factor from Table 2 (kWh/litre/day)		0.01	(44)
<i>If community heating and no tank in dwelling, use cylinder loss from Table 2 for 50 mm factory insulation in box (44)</i>			
Volume factor from Table 2a		0.74	(44a)
Temperature factor from Table 2b		0.54	(44b)
Energy lost from water storage, kWh/year	$(43) \times (44) \times (44a) \times (44b) \times 365 =$	503.10	(45)
Enter (42) or (45) in box (46)		503.10	(46)
If cylinder contains dedicated solar storage, box (47) = $(46) \times [(43) - (H11)] / (43)$, else (47) = (46)		251.55	(47)
Primary circuit loss from Table 3		360.00	(48)
Combi loss from Table 3a (enter "0" if no combi boiler)		0.00	(49)
Solar DHW input calculated using Appendix H (enter "0" if no solar collector)		668.40	(50)
Output from water heater, kWh/year	$(39) + (40) + (47) + (48) + (49) - (50) =$	2989.83	(51)
Heat gains from water heating	$0.25 \times [(39) + (49)] + 0.8 \times [(40) + (47) + (48)] =$	1502.26	(52)
<i>include (47) in calculation of (52) only if cylinder is in the dwelling or hot water is from community heating</i>			
5. Internal gains			
		Watts	
Lights, appliances, cooking and metabolic (Table 5)		767.17	(53)
Reduction of internal gains due to low energy lighting (calculated in Appendix L)		56.05	(53a)
Additional gains from Table 5a		42.24	(53b)
Water heating	$(52) \div 8.76 =$	171.49	(54)
Total internal gains	$(53) + (53b) + (54) - (53a) =$	924.85	(55)

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6. Solar gains

	Access factor Table 6d	Area m ²	Flux Table 6a	g Table 6b	FF Table 6c	Gains (W)
West	0.77	8.82	48.00	0.63	0.70	129.38 (57)
East	0.77	10.08	48.00	0.63	0.70	147.87 (59)
Total solar gains:	[(56) + + (64)]					277.25 (65)

Note: for new dwellings where overshadowing is not known, the solar access factor is '0.77'

Total gains, W	(55) + (65) =	1202.11 (66)
Gain/loss ratio (GLR)	(66) ÷ (37) =	8.55 (67)
Utilisation factor (Table 7, using GLR in box (67))		0.88 (68)
Useful gains, W	(66) × (68) =	1055.82 (69)

7. Mean internal temperature

Mean internal temperature of the living area (Table 8)		18.88 (70)
Temperature adjustment from Table 4a, where appropriate		0.00 (71)
Adjustment for gains <i>R is obtained from the 'responsiveness' column of Table 4a or Table 4d</i>	{[(69) ÷ (37)] - 4.0} × 0.2 × R =	0.70 (72)
Adjusted living room temperature	(70) + (71) + (72) =	19.58 (73)
Temperature difference between zones (Table 9)		0.40 (74)
Living area fraction (0 to 1.0)	living room area ÷ (5) =	0.15 (75)
Rest-of-house fraction	1 - (75) =	0.85 (76)
Mean internal temperature	(73) - [(74) × (76)] =	19.24 (77)

8. Degree days

Temperature rise from gains	(69) ÷ (37) =	7.51 (78)
Base temperature	(77) - (78) =	11.73 (79)
Degree-days, use box (79) and Table 10		1289.33 (80)

9. Space heating requirements

Space heating requirement (useful), kWh/year	0.024 × (80) × (37) =	4352.64 (81)
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For range cooker boilers where efficiency is obtained from the Boiler Efficiency Database or manufacturer's declared value, multiply the result in box (81) by $(1 - \Phi_{\text{case}}/\Phi_{\text{water}})$ where Φ_{case} is the heat emission from the case of the range cooker at fullload (in kW); and Φ_{water} is the heat transferred to water at full load (in kW). Φ_{case} and Φ_{water} are obtained from the database record for the range cooker boiler or manufacturer's declared value.

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9a. Energy requirements - individual heating systems, including micro-CHP

Note: when space and water heating is provided by community heating use the alternative worksheet 9b

Space heating:

Fraction of heat from secondary/supplementary system (use value from Table 11, Table 12a or Appendix F)	0.00	(82)
Efficiency of main heating system, %	110.00	(83)
(SEDBUK or from Table 4a or 4b, adjusted where appropriate by the amount shown in the 'efficiency adjustment' column of Table 4c)		
Efficiency of secondary/supplementary heating system, % (use value from Table 4a or Appendix E)	0.00	(84)
Space heating fuel (main) requirement, kWh/year	$[1 - (82)] \times (81) \times 100 \div (83) =$	3956.94 (85)
Space heating fuel (secondary), kWh/year	$(82) \times (81) \times 100 \div (84) =$	N/A (85a)

Water heating:

Efficiency of water heater, %	104.76	(86)
(SEDBUK or from Table 4a or 4b, adjusted where appropriate by the amount shown in the 'efficiency adjustment' column of Table 4c)		
Energy required for water heating, kWh/year	$(51) \times 100 \div (86) =$	2853.93 (86a)
Electricity for pumps and fans:		
each central heating pump, (Table 4f)	0.00	(87a)
each boiler with a fan-assisted flue (Table 4f)	0.00	(87b)
warm air heating system fans (Table 4f)	0.00	(87c)
mechanical ventilation -balanced, extract or positive input from outside (Table 4f)	858.92	(87d)
maintaining keep-hot facility for gas combi boiler (Table 4f)	0.00	(87e)
pump for solar water heating (Table 4f)	75.00	(87f)
Total electricity for the above equipment, kWh/year	$(87a) + (87b) + (87c) + (87d) + (87e) + (87f) =$	933.92 (87)

10a. Fuel costs - individual heating systems

	Fuel kWh/year		Fuel price (Table 12)		Fuel cost £/year	
Space heating - main system	(85)	×	1.63	× 0.01 =	64.50	(88)
Space heating - secondary	(85a)	×	N/A	× 0.01 =	0.00	(89)
Water heating						
Water heating cost (electric, off-peak tariff)						
On-peak fraction (Table 13, or Appendix F for electric CPSUs)					0.00	(90)
Off-peak fraction				$1.0 - (90) =$	1.00	(90a)
On-peak cost	$(86a) \times (90) \times$		N/A	× 0.01 =	0.00	(91)

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Off-peak cost	$(86a) \times (90a) \times$	N/A	$\times 0.01 =$	0.00	(91a)
Water heating cost (other fuel)	$(86a) \times$	1.63	$\times 0.01 =$	46.52	(91b)
Pump and fan energy cost	$(87) \times$	7.12	$\times 0.01 =$	66.49	(92)
Energy for lighting (calculated in Appendix L)	$996.49 \times$	7.12	$\times 0.01 =$	70.95	(93)
Additional standing charges (Table 12)				34.00	(94)

Renewable and energy-saving technologies (Appendices M and N)

Energy produced or saved, kWh/year	N/A	(95)			
Cost of energy produced or saved, £/year	$(95) \times$	N/A	$\times 0.01 =$	N/A	(95a)
Energy consumed by the technology, kWh/year	N/A	(96)			
Cost of energy consumed, £/year	$(96) \times$	N/A	$\times 0.01 =$	N/A	(96a)

Special features (Appendix Q)

Energy produced or saved, kWh/year	729.00	(s1)			
Cost of energy produced or saved, £/year	$(s1) \times$	7.12	$\times 0.01 =$	51.90	(s1a)
Energy consumed by the technology, kWh/year	0.00	(s2)			
Cost of energy consumed, £/year	$(s2) \times$	N/A	$\times 0.01 =$	N/A	(s2a)

Total energy cost $(88)+(89)+(91)+(91a)+(91b)+(92)+(93)+(94)-(95a)+(96a)-(s1a)+(s2a) =$ 230.56 (97)

11a. SAP rating - individual heating systems

Energy cost deflator (SAP 2005)		0.91	(98)
Energy cost factor (ECF)	$\{[(97) \times (98)] - 30.0\} \div \{(5) + 45.0\} =$	0.96	(99)
SAP rating (Table 14)		86.55	(100)
SAP band		B	

12a. Carbon dioxide emissions rate for individual heating systems (including micro-CHP) and community heating without CHP

Individual heating system:	Energy kWh/year	Emission factor kg CO ₂ /kWh	Emissions kgCO ₂ /year
Space heating main from box (85)	3956.94	0.194	767.65 (101)
Space heating secondary from box (85a)	N/A	N/A	0.00 (102)
Energy for water heating from box (86a)	2853.93	0.194	553.66 (103)
Community scheme:			
Efficiency of community boilers % use actual efficiency if known, or value in Table 4a			N/A (104)

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Energy for space heating	$(87^*) \times 100 \div (104) =$	N/A	$\times$	N/A	$=$	N/A	(105)
Energy for water heating	$(87b^*) \times 100 \div (104) =$	N/A	$\times$	N/A	$=$	N/A	(106)
Space and water heating	[(101) + (102) + (103)] or [(105) + (106)] =					1321.31	(107)
Electricity for pumps and fans from box (87) or (88*)		933.92	$\times$	0.422	$=$	394.11	(108)
Energy for lighting from Appendix L		996.49	$\times$	0.422	$=$	420.52	(109)
Energy produced or saved in dwelling (Appendices M and N)	(95) or (95*)		$\times$	N/A	$=$	0.00	(110)
Energy consumed by the above technology (Appendices M and N)	(96) or (96*)		$\times$	N/A	$=$	0.00	(111)
Energy produced or saved in dwelling (Appendix Q)	(s1) or (s1*)		$\times$	0.422	$=$	307.64	(s1a)
Energy consumed by the above technology (Appendix Q)	(s2) or (s2*)		$\times$	N/A	$=$	0.00	(s2a)
Total CO ₂ kg/year	(107) + (108) + (109) - (110) + (111) - (s1a) + (s2a)					1828.30	(112)
Carbon dioxide emissions rate	(112) $\div$ (5)					12.91	(113)
EI rating						86.87	
EI band						B	

13a. Primary energy, for individual heating systems (including micro-CHP) and community heating without CHP

Individual heating system:	Energy kWh/year	Primary energy factor	Primary energy (kWh/year)
Space heating main from box (85)	3956.94	1.150	4550.49
Space heating secondary from box (85a)	N/A	N/A	0.00
Energy for water heating from box (86a)	2853.93	1.150	3282.02

Community scheme:

Efficiency of community boilers %	N/A	(104)		
use actual efficiency if known, or value in Table 4a				
Energy for space heating	$(87^*) \times 100 \div (104) =$	N/A	$\times$	N/A = N/A
Energy for water heating	$(87b^*) \times 100 \div (104) =$	N/A	$\times$	N/A = N/A
				7832.50
Space and water heating				
Electricity for pumps and fans from box (87) or (88*)		933.92	$\times$	2.800 = 2614.96
Energy for lighting from Appendix L		996.49	$\times$	2.800 = 2790.16
Energy produced or saved in dwelling (Appendices M and N)	(95) or (95*)		$\times$	N/A = 0.00
Energy consumed by the above technology (Appendices M and N)	(96) or (96*)		$\times$	N/A = 0.00

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Energy produced or saved in dwelling (Appendix Q)	(s1) or (s1*)	×	2.800	=	2041.20
Energy consumed by the above technology (Appendix Q)	(s2) or (s2*)	×	N/A	=	0.00
Primary energy kWh/year					11196.43
Primary energy kWh/m ² /year					79.09

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1. Overall dwelling dimensions

	Area (m ²)	Average storey height (m)	Volume (m ³)
Ground Floor	56.32 (1a)	2.60	146.43 (1)
Total floor area (1a)+(2a)+(3a)+(4a)+(4b)+(4d)+(4f)+(4h) =	56.32 (5)		
Dwelling volume		(1)+(2)+(3)+(4)+(4c)+(4e)+(4g)+(4i) =	146.43 (6)

2. Ventilation rate

	m ³ per hour	Air changes per hour
Number of chimneys	0 × 40 = 0 (7)	
Number of open flues	0 × 20 = 0 (8)	
Number of intermittent fans or passive vents	0 × 10 = 0 (9)	
Number of flueless gas fires	0 × 40 = 0 (9a)	
Infiltration due to chimneys, flues and fans = (7)+(8)+(9)+(9a) =	0	÷ box (6) = 0.00 (10)
If a pressurisation test has been carried out, proceed to box (19)		
Number of storeys in the dwelling	1 (11)	
Additional infiltration		[(11) - 1] × 0.1 = N/A (12)
Structural infiltration: 0.25 for steel or timber frame or 0.35 for masonry construction		N/A (13)
If suspended wooden floor, enter 0.2 (unsealed) or 0.1 (sealed), else enter 0		N/A (14)
If no draught lobby, enter 0.05, else enter 0		N/A (15)
Percentage of windows and doors draught stripped	N/A (16)	
Enter 100 in box (16) for new dwellings which are to comply with Building Regulations		
Window infiltration	0.25 - [0.2 × (16) ÷ 100] =	N/A (17)
Infiltration rate	(10)+(12)+(13)+(14)+(15)+(17) =	N/A (18)
If based on air permeability value, then [÷ 100] + (10) in box (19), otherwise (19) = (18)		0.25 (19)
Air permeability value applies if a pressurisation test has been done or a degree air permeability is being used		

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Number of sides on which sheltered

(Enter 2 in box (20) for new dwellings where location is not shown)

3

(20)

Shelter factor

$$1 - [0.075 \times (20)] =$$

0.78

(21)

Adjusted infiltration rate

$$(19) \times (21) =$$

0.19

(22)

Calculate effective air change rate for the applicable case

a) If balanced whole house mechanical ventilation with heat recovery

$$(22) + 0.17 =$$

0.36

(23)

b) If balanced whole house mechanical ventilation without heat recovery

$$(22) + 0.5 =$$

N/A

(23a)

c) If whole house extract ventilation or positive input ventilation from outside

if (22) < 0.25, then (23b) = 0.5; otherwise (23b) = 0.25 + (22)

N/A

(23b)

d) If natural ventilation or whole house positive input ventilation from loft

if (22) ≥ 1, then (24) = (22); otherwise (24) = 0.5 + [(22)² × 0.5]

N/A

(24)

Effective air change rate - enter (23) or (23a) or (23b) or (24) in box (25)

0.36

(25)

3. Heat losses and heat loss parameter

ELEMENT

Area (m²)

U-value

AXU (W/K)

Windows*

7.56

×

1.42

=

10.70

(27)

Doors

1.89

×

3.00

=

5.67

(26)

Walls

29.86

×

0.20

=

5.97

(29)

Total area of elements ΣA, m²

39.31

(32)

* for windows and rooflights, use effective window U-value calculated as given in paragraph 3.2

Fabric heat loss, W/K

$$(26)+(27)+(27a)+(27b)+(28)+(29)+(29a)+(30)+(30a)+(31) =$$

22.34

(33)

Thermal bridges - Σ (lxΨ) calculated using Appendix K

if details of thermal bridging are not known calculate y × (32) [see Appendix K] and enter in box (34)

3.14

(34)

Total fabric heat loss

$$(33)+(34) =$$

25.48

(35)

Ventilation heat loss

$$(25) \times 0.33 \times (6) =$$

17.58

(36)

Heat loss coefficient, W/K

$$(35)+(36) =$$

43.06

(37)

Heat loss parameter (HLP), W/m²K

$$(37) \div (5) =$$

0.76

(38)

4. Water heating energy requirement

kWh/year

Energy content of hot water used from Table 1 column (b)

1525.62

(39)

Distribution loss from Table 1 column (c)

If instantaneous water heating at point of use, enter "0" in boxes (40) to (45)

For community heating use Table 1 (c) whether or not hot water tank is present

269.23

(40)

Water storage loss:

a) If manufacturer's declared loss factor is known (kWh/day):

N/A

(41)

Temperature factor from Table 2b

N/A

(41a)

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