

SPACE STANDARDS

341 Dumbarton Road

2 types of flats on 2nd floor; 1 flat monitored (2/1)

FLAT NO.: 2/1	LVRM	KIT	BATH	TOILET	BED 1	BED 2	BED 3	BALCONY	HALL	STORE	TOTAL
Ceiling height (m)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	nil	3.00	3.00	
Orientation (windows)	N	N	SW	N	SW	SW	N	nil	n/a	n/a	
Main dimensions (lxw)(m)	3.3x2.6	3.5x2.9	2.4x1.5	2.7x1.2	3.0x4.0	2.5x4.0	3.9x2.9	nil	5.1x1.2	2.6x1.3	
Window dimensions (wxh)(m)	1.0x2.0; 0.8x2.0	0.8x2.0	0.8x2.0	0.7x2.0	0.9x2.0; 0.6x2.0	0.6x2.0	0.6x2.0	nil	n/a	n/a	
Gross floor area (m ²)	18.24	10.35	4.05	3.48	13.32	10.36	15.48	nil	9.50	6.72	91.50
Gross volume (m ³)	54.71	31.05	12.15	10.44	39.96	31.08	46.44	nil	28.50	20.16	274.49
Gross window area (m ²)	5.60	1.60	1.60	1.40	3.80	2.40	2.40	nil	n/a	n/a	18.80 *Window height 2.0m
Net window area (glass) (m ²)	3.44	1.01	1.01	0.84	2.26	1.34	1.34	nil	n/a	n/a	11.25 * Frame width 0.10m; 0.12m; 0.04m - bay; 0.10m; 0.12m - single
window to floor area (%)	18.86	9.76	24.94	24.14	16.98	12.97	8.68	nil	n/a	n/a	116.34
Gross wall surface area (m ²)	52.80	42.00	26.40	24.60	43.50	38.10	49.80	nil			277.20 *Doors 1.672m ²
Intensity of Occupancy (persons h)	2.30	4.06	10.37	12.07	3.15	4.05	2.71	nil	4.42	6.25	0.46 No.Occupants*Hrs/Volume (m3)
Occupancy Level (persons/m3)	0.11	0.19	0.49	0.57	0.15	0.19	0.13	nil	0.21	0.30	0.02

Occupant Scenario

Halliday 2/1	LVRM	KIT	BATH	TOILET	BED 1	BED 2	BED 3	SUNSP	HALL	STORE	TOTAL
Net window area (unshaded) (m ²)	0.86	0.10	0.51	0.42	0.00	0.94	0.34	nil	n/a	n/a	3.16 * Frame width 0.16m; 0.2m; 0.1m
window to floor area (unshaded%)	5	1	12	12	0	9	2	nil	n/a	n/a	41
Covered surface area (m ²)	7.47	14.40			8.97	7.30	9.70	nil			47.84
Net wall surface area (%)	85.85	65.71			79.38	80.84	80.52	nil			
Furniture volume (m ³)	7.33	7.45	1.45		3.51	4.05	5.777	nil			
Net volume (m ³)	47.37	23.60	10.70		36.45	27.03	40.66	nil			
Net volume (%)	86.60	76.00	88.05		91.22	86.97	87.56	nil			

FLAT NO.: 2/2	LVRM	KIT	BATH	TOILET	BED 1	BED 2	BED 3	BALCONY	HALL	STORE	TOTAL
Ceiling height (m)	3.00	3.00	3.00	nil	3.00	nil	nil	nil	3.00	3.00	
Orientation (windows)	N	n/a	n/a	nil	S	nil	nil	nil	n/a	n/a	
Main dimensions (lxw)(m)	4.0x2.7	2.1x2.5	1.8x1.9	nil	2.5x2.4	nil	nil	nil	3.8x0.8	0.8x1.2	
Window dimensions (wxh)(m)	3.3x2.2	3.3x2.2	2x2.2	nil	3x2.2	nil	nil	nil	n/a	n/a	
Gross floor area (m ²)	12.28	5.25	3.42	nil	11.37	nil	nil	nil	3.59	1.92	37.83
Gross volume (m ³)	36.84	15.75	10.26	nil	34.11	nil	nil	nil	10.77	5.76	113.49
Gross window area (m ²)	7.26	1.70	0.28	nil	1.00	nil	nil	nil	n/a	n/a	10.24 *Window height varies
Net window area (glass) (m ²)	4.61	0.80	0.09	nil	0.64	nil	nil	nil	n/a	n/a	6.14 * Frame width 0.16m; 0.2m; 0.1m
window to floor area (%)	37.54	15.28	2.63	nil	5.63	nil	nil	nil	n/a	n/a	61.08
Gross wall surface area (m ²)	25.92	21.27	20.49	nil	27.91	nil	nil	nil			95.58 *Doors 1.672m ²

341 DUMBARTON ROAD

Temperature (°C), Relative Humidity (%), CO₂ Levels (ppm)

23-03-2006: 7°C sunny, clear, cool 61%RH

No.	Name	Flat	Living Room			Kitchen			Bathroom 1 (no bath)			Bathroom 2 (bath)			Bedroom 1 (parents)			Bedroom 2 (nearest ent - girls)			Bedroom 3 (boys)		
			Temp (°C)	RH (%)	CO ₂ (ppm)	Temp (°C)	RH (%)	CO ₂ (ppm)	Temp (°C)	RH (%)	CO ₂ (ppm)	Temp (°C)	RH (%)	CO ₂ (ppm)	Temp (°C)	RH (%)	CO ₂ (ppm)	Temp (°C)	RH (%)	CO ₂ (ppm)	Temp (°C)	RH (%)	CO ₂ (ppm)
1	Halliday	1/2	19.6	47.9	2040	20.3	41.1	2000	19.6	39.6	1000	19.6	48.5	1140	19.6	32.6	770	19.7	40.7	920	20.2	42.2	1840
			19.6	47.9	2040.0	20.3	41.1	2000.0	19.6	39.6	1000.0	19.6	48.5	1140.0	19.6	32.6	770.0	19.7	40.7	920.0	20.2	42.2	1840.0

Home Habits

No.	Name	Flat	# Occpts	At home/out (hrs)		At home/out (hrs)		At home/out (hrs)	
				weekday	weekend	weekday	weekend	weekday	weekend
1	Halliday	1/2	6	24/0	20/4 (H)	21/3	20/4 (W)	18/6	20/4 (K)

* take average of 3 and used in mean/median calculations = 21/3 weekdays & 20/4 weekends

Heating

No.	Name	Flat	# Occpts	# Rooms	Rooms/spaces with heating (#on[1]-off[0]-broken[n])								Time of year (ON)	Time of day (ON)	Level of heating in each room/space							Thermostat (°C/adjust °C)		
					Lvrn	Kitchen	Bathrm 1	Bathrm 2	Bedrm 1	Bedrm 2	Bedrm 3	Hallway			Sunspace	Lvrn	Kitchen	Bathrm 1	Bathrm 2	Bedrm 1	Bedrm 2		Bedrm 3	Hallway
1	Halliday	1/2	6	7	CH (1/1); GCH (1/1)	CH (1/n)	CH (1/1)	CH (1/1)	CH (1/1)	CH (1/1)	CH (1/1)	CH (1/1)	Oct - May	Morn-Aft/Evening	max 5	max 5	nil	max 5	max 5	max 5	max 5	max 5	max 5	nil (timer)

CH - central gas heating
 EF - electric fire
 ES - electric storage
 E - electric (plug-in)
 GF - gas fire

Access to sunlight

No.	Name	Flat	# Occpts	# Rooms	Orientation of windows (N/S/E/W)								Scale Rating (1-5)				
					Lvrn	Kitchen	Bathrm1	Bathrm2	Bedrm 1	Bedrm 2	Bedrm 3	Hallway	Sunspace	access to sunlight	outdoor/good light	private outdoor	communal outdoor
1	Halliday	1/2	6	7	N+N+W	N	N	W	W	W	N			5	5	5	1

Windows and Ventilation

No.	Name	Flat	# Occpts	# Rooms	Windows open (#open[1]-closed[0]-trickle vent [o][c][n])								Wall Vents (Y)(B-boarded up)					Trickle Vents (unused)			Extract Fans [1][0]		Passive Stack	Dehumidifier
					Lvrn	Kitchen	Bathrm 1	Bathrm 2	Bedrm 1	Bedrm 2	Bedrm 3	Sunspace	Lvrn	Kitchen	Bathrm 1	Bathrm 2	Bedrm 1	Bedrm 2	Bedrm 3	Sunspace	unsure	unaware		
1	Halliday	1/2	6	7	4/0/c	1/0/c	1/0/c	1/0/c	2/0/c	2/0/c	2/0/c									1	P/1	AT/1	0	0

Extract fans

AH - Auto-humidistat control extract
 AT - Auto-timer extract
 MS - manual switch extract
 P - pull chord extract

Humidity

No.	Name	Flat	# Occpts	Dry Method			Location	Drying Method			loads/time (per week)	Surface Condensation		
				Washer	Hand	Lauderette		W-D [1][0]	TD-[p][f][n]/[1][0][B]	hang dry-[o][i][ch][cl]		radiators-[0][hh]	loads/time (per week)	windows
1	Halliday	1/2	6	1			Y				2/7 days	Y-k	Y-b1/2/3	

B-broken
 W-D - washer and tumble dryer
 TD - separate tumble dryer [plumbed-in][flexible hose][no ventilation system][built-in condenser]/heat benefit [0-no][1-yes][B-broken]
 hang dry - [outdoors][indoors][close horse][closet space][drying room][hang][pulley]
 radiators - [0 heat change][heat higher]
 * Purpose duct but used as flexible hose system

Acoustic Insulation

No.	Name	Flat	# Occpts	Noise (Y)	Scale Rating	
					Frequency	Disturbance
1	Halliday	1/2	6	Y	4	3

Stress-Positive/Negative Scale-Well-being

No.	Name	Flat	# Occpts	Smokers	Cigarettes (per day)	Alcohol (units/week)	Pets (#)	Level of control in house (scale rating)		Perception and Emotions (scale rating)					Ailments (avg scale rating)								
								unexpected	lack control (sum/avg)	stress level (sum/avg)	Enthusias	Proud	Irritable	Ashamed	Alert/Atter	Upset	Nervous	Scared/Af	Average	1 Cause	ho Regular	di P Drugs	
1	Halliday	1/2	6				2	2	1	4 (1)	3 (1)	3	3	4	1	5	4	4	4	27 (1.6)	Y	Y	Y

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°C)