

SPACE STANDARDS

55 Byres Road

3 types of flats; 1 flat monitored (1/3)

FLAT NO.: 1/3	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)	SE	NW+SW	SW	nil	NW	nil	nil	nil	n/a	n/a	
Main dimensions (lxw)(m)	4.2x4.0	4.5x3.3	2.8x1.8	nil	3.5x2.9	nil	nil	nil	2.8x1.8	1.5x1.1	
Window dimensions (wxh)(m)	0.6x2.0; 0.4x2.0	0.8x2.0	0.7x2.0	nil	0.7x2.0	nil	nil	nil	n/a	n/a	
Gross floor area (m ²)	16.63	13.62	4.06	nil	10.45	nil	nil	nil	6.25	1.65	52.66
Gross volume (m ³)	49.89	40.86	12.17	nil	31.35	nil	nil	nil	18.75	4.95	157.97
Gross window area (m ²)	3.40	3.20	1.40	nil	1.40	nil	nil	nil	n/a	n/a	9.40 *Window height 2.0m
Net window area (glass) (m ²)	1.91	2.09	0.87	nil	0.87	nil	nil	nil	n/a	n/a	5.74 * Frame width 0.10m; 0.08m
window to floor area (%)	11.51	15.33	21.45	nil	8.33	nil	nil	nil	n/a	n/a	56.62
Gross wall surface area (m ²)	50.10	57.30	28.95	nil	39.60	nil	nil	nil			175.95 *Doors 1.672m ²
Intensity of Occupancy (persons)	0.24	0.29	0.99	nil	0.38	nil	nil	nil	0.64	2.42	0.08 No.Occupants*Hrs/Volume (m3)
Occupancy Level (persons/m3)	0.02	0.02	0.08	nil	0.03	nil	nil	nil	0.05	0.20	0.01

Occupant Scenario

Burke 1/3	LVRM	KIT	BATH	TOILET	BED 1	BED 2	BED 3	SUNSP	HALL	STORE	TOTAL
Net window area (unshaded) (m ²)	0.96	1.57	0.70	nil	0.44	nil	nil	nil	n/a	n/a	3.65 * Frame width 0.10m; 0.08m
window to floor area (unshaded)%	6	12	17	nil	4	nil	nil	nil	n/a	n/a	39
Covered surface area (m ²)	6.65	18.75			10.95	nil	nil	nil			36.35
Net wall surface area (%)	86.73	67.28			72.35	nil	nil	nil			
Furniture volume (m ³)	3.41	10.70	1.45		4.57	nil	nil	nil			
Net volume (m ³)	46.48	30.16	10.71		26.79	nil	nil	nil			
Net volume (%)	93.17	73.82	88.07		85.44	nil	nil	nil			

FLAT NO.: 1/2	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)	SE	SE	n/a	SW	SE	nil	nil	nil	n/a	n/a	
Main dimensions (lxw)(m)	4.7x3.5	3.2x3.7	3.0x1.2	nil	3.5x2.8	nil	nil	nil	4.2x1.0	1.8x1.1	
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)	17.17	13.62	4.29	nil	10.16	nil	nil	nil	5.52	2.97	53.73
Gross volume (m ³)	51.51	40.86	12.87	nil	30.48	nil	nil	nil	16.56	8.91	161.19
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 (%)	26.85	5.89	2.10	nil	6.30	nil	nil	nil	n/a	n/a	41.14
Gross wall surface area (m ²)	25.92	21.27	20.49	nil	27.91	nil	nil	nil			95.58 *Doors 1.672m ²

FLAT NO.: 1/1	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)	SE	NW	n/a	nil	NW	nil	nil	nil	n/a	n/a	
Main dimensions (lxw)(m)	3.4x3.7	1.7x4.3	1.7x2.1	nil	3.5x2.9	nil	nil	nil	6.7x1.1	1.0x0.9	
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)	14.96	13.17	3.93	nil	10.47	nil	nil	nil	9.71	1.17	53.41
Gross volume (m ³)	44.88	39.51	11.79	nil	31.41	nil	nil	nil	29.13	3.51	160.23
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 (%)	30.81	6.09	2.29	nil	6.11	nil	nil	nil	n/a	n/a	45.31
Gross wall surface area (m ²)	25.92	21.27	20.49	nil	27.91	nil	nil	nil			95.58 *Doors 1.672m ²

55 BYRES ROAD

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

14-03-2006: 6°C windy, cloudy, grey 92%RH

No.	Name	Unit/Flat	Living Room			Kitchen			Bathroom			Bedroom 1			Bedroom 2 (nearest front door)		
			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	Burke	55 1/3	17.7	49.6	1280	17.3	49.1	1130	17.6	48.8	1270	16.9	49.4	1120			
			17.7	49.6	1280.0	17.3	49.1	1130.0	17.6	48.8	1270.0	16.9	49.4	1120.0			

Home Habits

No.	Name	Flat	# Occpts	At home/out (hrs)		
				weekday	weekend	(12/12)
1	Burke	55 1/3	1	varies	varies	(12/12)

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	Bathroom	Bedrm 1	Bedrm 2	Hallway	Sunspace			Lvrn	Kitchen	Bathroom	Bedrm 1	Bedrm 2		Hallway	Sunspace
1	Burke	55 1/3	1	4	GF (1/1)	GH (1/1)		E (1/1)		E (2/1)		Oct-Apr	All day	max 5	max 5	nil	max 5		max 5		

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

Access to sunlight

No.	Name	Flat	# Occpts	# Rooms	Orientation of windows (N/S/E/W)							Scale Rating (1-5)				
					Lvrn	Kitchen	Bathroom	Bedrm 1	Bedrm 2	Hallway	Balcony	access to sunlight	outdoor/good light	private outdoor	communal outdoor	
1	Burke	55 1/3	1	4	E	W	S	E					5	5	5	4

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	Bathroom	Bedrm 1	Bedrm 2	Sunspace	Lvrn	Kitchen	Bathroom	Bedrm 1	Bedrm 2	Sunspace	unsure	unaware	access	Kitchen			Bathrm
1	Burke	55 1/3	1	4	3/0/c	2/0/c	1/0/c	1/0/c											1	0	0	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	Iry Method [1][B]		Lauderette	loads/time (per week)	Location	rying Method	hang dry-[o][i][ch][cl]radiators-[0][hh]	loads/time (per week)	Surface Condensation		
				Washer	Hand							windows	walls	clothes
1	Burke	55 1/3	1	1	1		1/3 days	Y		i/p	1/3 days			

B-broken
 W-D - washer and tumble dryer
 TD - separate tumble dryer [plumbed-in][flexible hose][no ventilation system]/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	Distubance
1	Burke	55 1/3	1	Y	3	1

Stress-Positive/Negative Scale-Well-being

No.	Name	Flat	# Occpts	Smokers	Cigarettes (per day)	Alcohol (units/wee)	Pets (#)	Level of control in house (scale rating)		d 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/Afi	Average[1 Cause [ho Regular di P Drugs		
1	Burke	55 1/3	1			7	0	1	4 (1)	3 (1)	4	4	1	1	5	1	1	1	32 (1.9)	Y	Y

55 BYRES ROAD

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

24-10-2006: 10°C, 95%; cloudy, cool – scattered showers (light rain)

No.	Name	Unit/Flat	Living Room			Kitchen			Bathroom			Bedroom 1		
			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	Burke	55 1/3	20.3	59.9	1360.0	20.3	60.0	1380.0	20.6	59.4	1370.0	20.1	59.7	1380.0
			20.3	59.9	1360.0	20.3	60.0	1380.0	20.6	59.4	1370.0	20.1	59.7	1380.0

55 BYRES ROAD RESULTS (Energy Efficiency & Air Quality)

Users's habits vs. Energy Efficiency / User's habits vs. Air Quality
55 Byres Road

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

14-03-2006: 6°C windy, cloudy, grey 92%RH

No.	Name	Unit/Flat	Living Room			Kitchen			Bathroom			Bedroom 1			Bedroom 2 (nearest front door)		
			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	Burke	55 1/3	17.7	49.6	1280	17.3	49.1	1130	17.6	48.8	1270	16.9	49.4	1120			
			17.7	49.6	1280.0	17.3	49.1	1130.0	17.6	48.8	1270.0	16.9	49.4	1120.0			

Home Habits

# Flats	At home/out (hrs)
	weekday weekend
1	varies varies

Heating

# Flats	# Occp (avg/flat)	# Rooms (per apt)	Rooms/spaces with heating (#/on[1]-off[0]-broken[n])							Time of year (ON)	Time of day (ON)		Lvrn	Level of heating in each room/space					Thermostat (°C/adjust °C)		
			Lvrn	Kitchen	Bathroom	Bedrm 1	Bedrm 2	Hallway	Sunspace		1	max 5		nil	Kitchen	Bathroom	Bedrm 1	Bedrm 2		Hallway	Sunspace
1	1	4	GF (1/1)	1						Oct-Apr	1	All day	1	max 5	nil	1	1	1	1	1	1
		4	GH (1/1)		1																
			E (1/1)				1														
			E (2/1)						1												

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

Access to sunlight

# Flats	# Occp (avg/flat)	# Rooms (per apt)	Orientation of windows (N/S/E/W)						Scale Rating (1-5)					
			Lvrn	Kitchen	Bathroom	Bedrm 1	Bedrm 2	Hallway	Balcony	access to sunlight	outdoor/good light	private outdoor	communal outdoor	
1	1	4	E	1			1				5	5	5	4
		4	W		1						5	5	5	4
			S			1								

Windows and Ventilation

# Flats	# Occp (avg/flat)	# Rooms (per apt)	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	Bathroom	Bedrm 1	Bedrm 2	Sunspace	Lvrn	Kitchen	Bathroom	Bedrm 1	Bedrm 2	Sunspace	unsure	unaware	access			Kitchen	Bathrm
1	1	4	3/0/c	1													1	0	0	0	0
		4	2/0/c		1																
			1/0/c				1	1													

Humidity

# Flats	# Occp (avg/flat)	# Rooms (per apt)	Laundry Method [1][B]			loads/time (per wash/week)	Location Kitchen	Drying Method					loads/time (per wash/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]	windows		walls	clothes		
1	1	4	1			1	3	1					1	3			
		4				1	3				1		1	3			

B-broken
 W-D - washer and tumble dryer
 TD - separate tumble dryer [plumbed-in][flexible hose][no ventilation system]/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

