

Room name	Location	Maximum Rads Height	Maximum Rads Width	Make	Rad type	H	x	L	Column	Heat Output Δt60°C BTU	Heat Output Δt60°C Watts	Conversion Factor	Output of Current Radiators Watts	EPC Heat Loss Watts Calculation Per Room	Design Shortfall Watts	Design Shortfall %
Entrance Hall/ Living Room	Door	2000	600	Aspen	ASP18-55VDW	1,800	x	540	2	8,397	2,461	3.38	728	2,615	893	34.14%
	Stairs	800	1000	Aspen	ASP60-97DW	600	x	960	2	5,241	1,536	3.38	454			
	Living Garden	800++	1800	Aspen	ASP60-115SW	600	x	1,140	2	6,223	1,824	3.38	540			
Kitchen	Kitchen Window	2000	1000	Aspen	ASP18-43VDW	1,800	x	420	2	6,531	1,914	3.38	566	1,991	697	34.99%
	Kitchen	2000	800	Aspen	ASP18-55VDW	1,800	x	540	2	8,397	2,461	3.38	728			
Toilet	Toilet	2000	700	Aspen	ASP60-55SW	600	x	540	1	1,587	465	3.38	138	202	64	31.88%
Utility Room	Utility Room	900	500	Standard	T21	900	x	500	-	4,111	1,205	3.38	356	375	19	4.94%
Ground Floor Area														5,183	1,672	32.27%
En-Suite Bedroom 1	Bedroom 1	800	1500	Aspen	ASP60-115DW	600	x	1,140	2	6,223	1,824	3.38	540	760	220	29.00%
En-suite (Bathroom)	Window	2000	450	Unknown	NA	1,200	x	420		1,500	440	3.38	130	266	136	51.10%
Bedroom 2	Office	500	1500+	Standard	T21	400	x	1,100	-	4,959	1,453	3.38	430	453	23	5.08%
Landing	Hallway 1	2000	1000+	Aspen	ASP18-43VSW	1,800	x	420	1	3,368	987	3.38	292	406	114	28.07%
Living room (first floor)	Driveway	500	1800+	Aspen	ASP60-145SW	600	x	1,440	1	4,227	1,239	3.38	367	1,012	279	27.56%
Playroom	Garden	500	1800+	Aspen	ASP60-145SW	600	x	1,440	1	4,227	1,239	3.38	367			
Shower room (first floor)	Toilet	2000	600	K-Rail	STR616W	1,600	x	600	-	2,881	844	3.38	250	224	-26	-11.52%
First Floor Area														3,121	746	23.92%
Bathroom (second floor)	Shower Room	500	1800+	K-Rail	STR612W	1,200	x	600	-	2,182	640	3.38	189	535	346	64.63%
Bedroom 3	Bedroom 3	600	1500+	Aspen	ASP60-115SW	600	x	1,140	1	3,344	980	3.38	290	987	678	68.70%
	Bedroom 3	700	1500+	Aspen	ASP60-115SW	600	x	1,140	1	3,344	980	3.38	290			
Bedroom 4	Bedroom 4	700	2000+	Aspen	ASP60-97DW	600	x	1,140	2	6,223	1,824	3.38	540	652	112	17.24%
Landing Second floor	Hallway 2	700	650	Aspen	ASP60-55SW	600	x	540	1	1,587	465	3.38	138	219	81	37.16%
Second Floor Area														2,393	1,218	50.88%
										84,552	24,781		7,332	10,697	3,636	33.99%
										1 Watt = 3.412 BTU		Design room temperature 24 degrees, design flow temperature 47.5 degrees (50c+45c/2=MWT). 47.5-24=23.5 Catalogued Delta T60 (60/23.5)^1.3=3.38 (Conversion Factor)				