Didsbury Library Radiator Assesment

Rad ref	Floor Level	Room name	Existing/New	Height	Width	Depth	Columns	Design output of radiator at delta T 50°C as used by contractor kW	Existing Rad output per room (kW)	LTHW Flow	LTHW Return	Height mm	Width	Depth	Book Output	Selection output (kW) @ 70/50	Notes
Rad 001	0	Entrance	Existing	700	900	130		1447	2.894	50	30	740	2036	130	3116	2717.2	Cast iron
Rad 002	0	Entrance	Existing	700	900	130		1447		50	30	740	2036	130	3116	2717.2	Cast iron
Rad 003	0	Office	Existing	700	300	130		445	0.89	70	50	740	463	130	668	582.5	Cast iron
Rad 005	0	Office	Existing	700	300	130		445		70	50	740	463	130	668	582.5	Cast iron
Rad 006	0	Library Annex	Existing	180	1700	DP	DP	1184	12.413	70	50	300	1500	K2	1473	1284.5	Below and behind bookcase
Rad 007	0	Library Annex	Existing	180	1700	DP	DP	1184		70	50	300	1500	K2	1473	1284.5	Below and behind bookcase
Rad 008	0	Library Annex	Existing	180	1700	DP	DP	1184		70	50	300	1500	K2	1473	1284.5	Below and behind bookcase
Rad 009	0	Library Annex	Existing	700	900	130		1335		70	50	740	1035	130	1558	1358.6	Cast Iron
Rad 010	0	Library Annex	Existing	700	900	130		1335		70	50	740	892	130	1558	1358.6	Cast iron
Rad 011	0	Library Annex	Existing	180	1700	DP	DP	1184		70	50	300	1500	K2	1473	1284.5	
Rad 012	0	Library Annex	Existing	700	1100			1669		70	50	740	1321	130	2003	1746.6	Cast iron
Rad 013	0	Library Annex	Existing	700	1100			1669		70	50	740	1321	130	2003	1746.6	Cast iron
Rad 014	0	Library Annex	Existing	700	1100			1669		70	50	740	1321	130	2003	1746.6	Cast iron
Rad 015	0	Library Main	Existing	700	900			1335	11.046	70	50	740	892	130	1692	1475.4	Cast iron
Rad 016	0	Library Main	Existing	700	900			1335		70	50	740	892	130	1692	1475.4	Cast iron
Rad 017	0	Library Main	Existing	700	1100			1669		70	50	740	1321	130	2003	1746.6	Cast iron
Rad 019	0	Library Main	Existing	700	1100			1669		70	50	740	1321	130	2003	1746.6	Cast iron
Rad 021	0	Library Main	Existing	180	1700	DP	DP	1184		70	50	300	1500	K2	1473	1284.5	
Rad 022	0	Library Main	Existing	180	1700	DP	DP	1184		70	50	300	1500	K2	1473	1284.5	
Rad 023	0	Library Main	Existing	700	900			1335		70	50	740	892	130	1692	1475.4	Cast iron
Rad 024	0	Library Main	Existing	700	900			1335		70	50	740	892	130	1692	1475.4	Cast iron
Rad 025	0	Library Toddler	Existing	700	800			1224	4.896	70	50	740	892	130	1692	1475.4	Cast iron
Rad 026	0	Library Toddler	Existing	700	800			1224		70	50	740	892	130	1692	1475.4	Cast iron
Rad 027	0	Library Toddler	Existing	700	800			1224		70	50	740	892	130	1692	1475.4	Cast iron
Rad 028	0	Library Toddler	Existing	700	800			1224		70	50	740	892	130	1692	1475.4	Cast iron
Rad 029	0	Stairwell	Existing	700	900			1335	2.67	50	30	740	2036	130	3116	2717.2	Cast iron
Rad 030	0	Stairwell	Existing	700	900			1335		50	30	740	2036	130	3116	2717.2	Cast iron
Rad 031	0	Reception	Existing	900	550			779	3.116	70	50	740	678	190	1001	872.9	Cast iron
Rad 0- 32	0	Reception	Existing	900	1050			1558		70	50	740	1178	190	1780	1552.2	Cast iron
Rad 033	0	Reception	Existing	900	550			779		70	50	740	606	190	890	776.1	Cast iron
Rad 034	0	Office	Existing	600	1900	DP	DP	1952.0	1.952	75	30	600	2000	K2	3922	3420.0	Behind desk
Rad 101	1	Viewing Gallery	Existing	600	1900	DP	DP	1952.0	7.808	50	30	Fan Convector			3922	8000.0	Fan Convector or Built in
Rad 102	1	Viewing Gallery	Existing	600	1900	DP	DP	1952.0		50	30	Fan Convector			3922	8000.0	Fan Convector or Built in
Rad 103	1	Viewing Gallery	Existing	600	1900	DP	DP	1952.0		50	30	Fan Convector			3922	8000.0	Fan Convector or Built in
Rad 104	1	Viewing Gallery	Existing	600	1900	DP	DP	1952.0		50	30	Fan Convector			3922	8000.0	Fan Convector or Built in
EP 1-01	1	Staff Room	New	480						NA	NA	480	900	140		0.0	2KW Electric Dimplex PLXE not
EP 1-02	1	Staff Room	New							NA	NA	480	900	140		0.0	2KW Electric Dimplex PLXE not
							Main Heating	32361.0	47.7							81615.1	

Heat Rejection	42868.6
Main Heating	38746.4
	-4122.2